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*Francis Brown of Salem Mass*

# SEA JOURNAL.

## JOURNAL OF A VOYAGE

From *Salem* to *Cape Cod* in  
the *West Star* of *Salem* commanded  
by *Wm. Conant*

Begun *July 24th* 18*38*, and  
terminated *November 26th* 18*39*

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Landmark Press.

DAY  
OF VOYAGE

18 38

P. M. A. M.

M. M.

18 38

P. M. A. M.

ent. M.

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from

to

DAY  
OF THE VOYAGE.

[illegible]

H.	K.	F.	COURSES.	WINDS.	LEE Wat.	BAROM.	THEROM. Air. Wat.	SOUND- INGS.	OCCURRENCES.	Day of	18
					Inch. Fath.	"	"	"			
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
1											
2											
3											
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7											
8											
9											
10											
11											
12											

The following pages contain a  
Journal of a passage in the "Big Rattler"  
from Boston to India commanded by S. P. Hall  
Commenced July 1st. 1840

COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.
			By Acct. Obs. Dble. Alt.			By Acct. Chron. Lunar.	Per Azimuth, " Amplitude,
Miles distance per Log.			Diff. Lat.	Diff. Long.	Inches in the 'well.	Set of the current,	"







Big Pattern of Salem

from Boston

towards the Equator 15 DAY  
OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air. Wat.	SOUND-INGS.	OCCURRENCES.	1840	
1				West					Commenced Fresh Breeze from S.W. & light foggy. At 1 P.M. The foggy sail hoisted a board east of foremast. At 4 P.M. when it hauled in the foremast made sail & mist down the harbor of Boston through the "Foggy passage" at 2 30. Discharged m. masting on the deck on board of a fishing & the boats in the Boston light. At 7 P.M. first families. At 8 P.M. Cape Ann in the land there about time N.E. coming in foggy. At 8 P.M. Fresh & strong Breeze with heavy rough seas. Took in Foggy sail at 11 P.M. 30. Double reefed the m. sail.		
2									Middle Part. Thick foggy rain weather & strong lightning with strong Breeze from S.W. West.		
3									From Thick Weather & strong Breeze. Split the main sail. Masted at 12 o'clock another.		
4									Terminated. More moderate but thick & foggy.		
5									No Obs.		
6											
7											
8											
9											
10				West							
11				West							
12				West							
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct. Obs. Dble. Alt.	42 09 N	By Acct. Chron. Lunar.	68 17 W		Per Azimuth, " Amplitude,	12 P.M.
Miles distance per Log.			117	Diff. Lat.			Diff. Lon.		Inches in the well.	Set of the current,	N.

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air. Wat.	SOUND-INGS.	OCCURRENCES.	Thursday Day of July 2 <sup>d</sup> 1840	
1	2	4	East	N. E. N					Commenced Light Breeze & thick foggy with an ugly sea		
2	2	11							At 8 & 10 P.M. Masted No. 1000 90 fath.		
3	2	4							Middle Part Light Breeze & pleasant		
4	2	4							Terminated Light Breeze & calm with thick foggy weather.		
5	2	4									
6	2	4									
7	3	3									
8	3	3									
9	4	6									
10	2	2									
11	2	2									
12	4	4									
1	3	4									
2	3	4									
3	2	4									
4	1	4									
5	1	1									
6	1	1									
7	1	1									
8	1	1									
9	1	1									
10	1	1									
11	1	1									
12	1	1									
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct. Obs. Dble. Alt.	42 14 N	By Acct. Chron. Lunar.	25 46 36 W		Per Azimuth, " Amplitude,	8 30 W
Miles distance per Log. 53				Diff. Lat.		Diff. Long.		Inches in the well.		Set of the current, M.	

Brig Rattles

from Boston

to Equator

3<sup>rd</sup> DAY  
OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LEE Way.	BAROM.	THERMOM. Air/Wat.	SOUND- INGS.	OCCURRENCES, Friday Day of July 30 1840			
1	1	1	S. East	East					Commences Light Sine 4 P.M. with heavy irregular sea 44.2 E. N. more pleasant. Saw a big Steamer.			
2	2	1										
3	3	1										
4	4	1	S. E. S.						Middle Calm with puffing clouds Morg. Wind very faint from North Sea then calm.			
5	5	1										
6	6	1										
7	7	1	S. East						Terminates Cloudy with rain Obs. at 11.00 very Indist.			
8	8	2										
9	9	1										
10	10	1							Lat at 9.30 P.M. in Plan. 42.12 N. Lat " " " " 42.08 N.			
11	11	1										
12	12	1										
1	1	1	Calcu									
2	2	3										
3	3	4										
4	4	5	East North									
5	5	6										
6	6	7										
7	7	8										
8	8	1										
9	9	1										
10	10	1										
11	11	3										
12	12	4										
C			COURSE.	DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
						By Acct. Obs. Alt.	42.12 N	By Acct. Chron. Lunar,	66.18 W		Per Azimuth, " Amplitude,	8.30 W
			Miles distance per Log. 27			Diff. Lat.		Diff. Long.		Inches in the well.	Set of the current, N.	

H.	K.	F.	COURSES.	WINDS.	LEE Way.	BAROM.	THERMOM. Air/Wat.	SOUND- INGS.	OCCURRENCES.	Saturday of July 31 <sup>st</sup> 18	1840	
1	1	3	N.E.	West	inch. Part.					Commences Moderate & Rainy fair a ship and 10.00 Steamer 11.00 At 1.00 Equally & black appearance of the wind Misting suddenly from E. to W. & rain to the E. & Eastward. More ship to the E. N. E. Double into the main sail & took 10.00 Sail.		
2	2	4										
3	3	5										
4	4	6	N. E. S.	East						Middle Part more pleasant wind from Set the Top East Gail.		
5	5	6										
6	6	6										
7	7	7	E. S. E.							Terminates Dist. 1.00 for Southward Hazy weather. Took 10.00 from Main Gail		
8	8	7										
9	9	7										
10	10	5	E. S. E.	South								
11	11	5										
12	12	5										
1	1	1	E. S. E.									
2	2	2										
3	3	3										
4	4	4										
5	5	5										
6	6	5										
7	7	4	E. S. E.									
8	8	4										
9	9	4										
10	10	6	E. S. E.									
11	11	6										
12	12	7										
C			COURSE.	DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
						By Acct. Obs. Alt.	41.38 N	By Acct. Chron. Lunar,	64.02 W		Per Azimuth, " Amplitude,	9.40 W
			Miles distance per Log. 137			Diff. Lat.		Diff. Long.		Inches in the well.	Set of the current, N.	

Big Water of Salem from Boston

to the Equator 5<sup>th</sup> DAY OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM.	SOUND-INGS.	OCCURRENCES.
1	7		SE.	South	1/2				Commenced Fresh Breeze - Windy
2	7								Went out to the best advantage.
3	8								Got the anchor way securing them on the
4	8								At 5 P. M. Spoke to the Ship's Crew
5	7								and for New York from Liverpool 1400
6	7								by day, at 10 o'clock and the large ship
7	7								passed 2 miles to south of the ship
8	7								Middle of the fresh Breeze of the morning
9	7								
10	7								More equally fresh in the air is lost
11	7								Subsided in the forenoon.
12	7								Terminated more pleasant & set anchor
1	7		SE. S	SE. S					
2	7								
3	7								
4	7		NE. S	SE. S					
5	7								
6	7		NE. S	SE. S					
7	7								
8	7								
9	7								
10	7								
11	7								
12	7								Current at East 45'

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM.	SOUND-INGS.	OCCURRENCES.
1	6		East	99 N	1/2				With Breeze - Lightly at times
2	6								
3	6								
4	6								
5	6		SE. S	NE. S					Middle Light Breeze & pleasant
6	6								At 9.30 Am. A. Landed 1 day before
7	6		SE. S	NE. S					aboard the ship
8	6								Terminated Light Breeze & pleasant
9	6								
10	6								
11	6								
12	6								
1	5		SE. S	NE. S					
2	5								
3	5								
4	5		SE. S	NE. S					
5	5								
6	5								
7	5								
8	5								
9	5		SE. S	NE. S					
10	5								
11	5								
12	5								Current N. 47 E. 36 miles





Brig *Platten* from *Boston* to the *Equator* 9<sup>th</sup> DAY OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air (Wat.)	SOUNDINGS.	OCCURRENCES.		
1	7		SEd	SEW	1/2				Thursday of July 9 <sup>th</sup> 1840		
2	7		SEd						Throughout this Day I wish		
3	7		SEd						to keep the Clouds		
4	7		SEd						at 2 P.M. Becking Colours with a		
5	7		SEd						S. by E. 1/2 E. 1/2 S. 1/2 E.		
6	7	4	SEd						at 1 P.M. saw a big black bird		
7	7	4	SEd								
8	7		SEd								
9	7		SEd								
10	7		SEd								
11	7		SEd								
12	7		SEd								
1	7		SEd								
2	7		SEd								
3	7		SEd								
4	7		SEd								
5	7		SEd								
6	7		SEd								
7	7		SEd								
8	7		SEd								
9	7		SEd								
10	7		SEd								
11	7		SEd								
12	7		SEd								
					3020 78	Current N 65 E 35 3					
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct.	37 25 N	By Acct.	47 30 W		Per Azimuth,	11 1/2
					Obs. Dobs. Alt.		Chron. Lunar,			" Amplitude,	
Miles distance per Log. 186					Diff. Lat.		Diff. Long.		Inches in the well.	Set of the current,	N.

IL	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air (Wat.)	SOUNDINGS.	OCCURRENCES.	
1	7		SEd	SEW	1/2				Friday Day of July 10 <sup>th</sup> 1840	
2	7								Throughout the day I wish	
3	7								to keep the Clouds	
4	7								at 2 P.M. Becking Colours with a	
5	7								" 4 " " 1/2 E. 1/2 S. 1/2 E.	
6	7		SEd	SEW					" 7 " " 1/2 E. 1/2 S. 1/2 E.	
7	7								" 10 30 " 1/2 E. 1/2 S. 1/2 E.	
8	7								Spoke the weather dark & foggy	
9	7								and hazy 44.50 Bar being 44.65	
10	7									
11	7									
12	7									
1	4		SEd	SEW						
2	6		SEd	SEW						
3	6									
4	6									
5	6									
6	6		SEd	SEW						
7	6									
8	6		SEd	SEW						
9	6									
10	6		SEd	SEW						
11	6									
12	6									
					3020 78	Current N 65 E 35 3				
COURSE.		DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
				By Acct.	38 13 N	By Acct.	44 34 W		Per Azimuth,	13 1/2
				Obs. Dobs. Alt.		Chron. Lunar,			" Amplitude,	
Miles distance per Log. 157				Diff. Lat.		Diff. Long.		Inches in the well.	Set of the current,	N. 1/2 E.





*Big Rattle* from *Boston* to the *Equator* 15 DAY OF THE VOYAGE.

II.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM. Inch. Part.	THERMOM. Air. Wat.	SOUND- INGS.	OCCURRENCES, Monday of July 13 <sup>th</sup>	13 <sup>th</sup>	
1	2		NW.	West	1/2	30.60			Spent this Day Light the Calmy & pleasant weather 4-2 P.M. Saw at 1 o'clock 4-4 P.M. The last of the ship by a boat from here. The good lighted the Queen 17 May from Boston for Manilla H. N. Thomas guides on the Queen		
2	2										
3	2										
4	2										
5	2										
6	2		SE	SW							
7	2										
8	2		SE								
9	2										
10	2										
11	2										
12	2										
1	1										
2	1										
3	1										
4	1		Calmy								
5	1										
6	1		East	SW							
7	2										
8	2										
9	2										
10	3										
11	3										
12	3		SE	SW		30.30			Current N 14 E. 28'		
COURSE.		DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.	
				By Acct.	34 09 70	By Acct.	41 52 16		Per Azimuth,	15 24	
				Obs.		Circum.			" Amplitude,		
				Dble. Alt.		Lunar,					
Miles distance per Log. 40				Diff. Lat.		Diff. Long.		Inches in the well.	Set of the current.		

II.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM. Inch. Part.	THERMOM. Air. Wat.	SOUND- INGS.	OCCURRENCES.	
1	5		SE	SW					Tuesday July 14th 1880  Through the Day Moderate & pleasant  Daisy Ann. Saw this 1 o'clock Steam East? H. N. The Colver. 17 miles at 1 o'clock	
2	5									
3	5									
4	5									
5	5									
6	4		SE	SW						
7	4									
8	4									
9	4									
10	4									
11	4									
12	4									
1	5		SE	SW					Current East 50 mi.	
2	5									
3	5		SE							
4	5		SE							
5	5									
6	5									
7	5									
8	5									
9	5		SE	SW						
10	5									
11	5									
12	5					30.30 15				
COURSE.		DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
				By Acct.	32 41 16	By Acct.	39 05 16		Per Azimuth,	15 24
				Obs.		Circum.			" Amplitude,	
				Dble. Alt.		Lunar,				
Miles distance per Log. 114				Diff. Lat.		Diff. Long.		Inches in the well.	Set of the current. 50 mi. East	

*Roller* from *Boston* to the *Equator* 15<sup>th</sup> DAY OF THE VOYAGE

IL	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM.	SOUND-INGS.	OCCURRENCES.
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290
291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360
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371	372	373	374	375	376	377	378	379	380
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391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410
411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430
431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450
451	452	453	454	455	456	457	458	459	460
461	462	463	464	465	466	467	468	469	470
471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	488	489	490
491	492	493	494	495	496	497	498	499	500
501	502	503	504	505	506	507	508	509	510
511	512	513	514	515	516	517	518	519	520
521	522	523	524	525	526	527	528	529	530
531	532	533	534	535	536	537	538	539	540
541	542	543	544	545	546	547	548	549	550
551	552	553	554	555	556	557	558	559	560
561	562	563	564	565	566	567	568	569	570
571	572	573	574	575	576	577	578	579	580
581	582	583	584	585	586	587	588	589	590
591	592	593	594	595	596	597	598	599	600
601	602	603	604	605	606	607	608	609	610
611	612	613	614	615	616	617	618	619	620
621	622	623	624	625	626	627	628	629	630
631	632	633	634	635	636	637	638	639	640
641	642	643	644	645	646	647	648	649	650
651	652	653	654	655	656	657	658	659	660
661	662	663	664	665	666	667	668	669	670
671	672	673	674	675	676	677	678	679	680
681	682	683	684	685	686	687	688	689	690
691	692	693	694	695	696	697	698	699	700
701	702	703	704	705	706	707	708	709	710
711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730
731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750
751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770
771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790
791	792	793	794	795	796	797	798	799	800
801	802	803	804	805	806	807	808	809	810
811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830
831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850
851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870
871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890
891	892	893	894	895	896	897	898	899	900
901	902	903	904	905	906	907	908	909	910
911	912	913	914	915	916	917	918	919	920
921	922	923	924	925	926	927	928	929	930
931	932	933	934	935	936	937	938	939	940
941	942	943	944	945	946	947	948	949	950
951	952	953	954	955	956	957	958	959	960
961	962	963	964	965	966	967	968	969	970
971	972	973	974	975	976	977	978	979	980
981	982	983	984	985	986	987	988	989	990
991	992	993	994	995	996	997	998	999	1000

Throughout the Day Light fair and pleasant weather  
Dawn says a hot day to them to the south of the Equator. And at night the stars are very clear. The Cape Verde Islands are seen to the North East of the Equator. The Cape Verde Islands are seen to the North East of the Equator.

IL	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM.	SOUND-INGS.	OCCURRENCES.
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290
291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410
411	412	413	414	415	416	417	418	419	42

Brig Scatter

from Boston to the Equator

17 DAY OF THE VOYAGE.

IL	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air. Wat.	SOUNDINGS.	OCCURRENCES.	Friday July 17 <sup>th</sup>	1840
1	2	2	SW	SE							
2	2	2	SW								
3	2	2	SW								
4	2	4	SW	SE							
5	2	4	SW	SE							
6	2	4	SW	SE							
7	2	4	SW	SE							
8	2	4	SW	SE							
9	2	4	SW	SE							
10	2	4	SW	SE							
11	2	4	SW	SE							
12	2	4	SW	SE							
1	4	4	SW	SE							
2	4	4	SW	SE							
3	4	4	SW	SE							
4	4	4	SW	SE							
5	4	4	SW	SE							
6	4	4	SW	SE							
7	4	4	SW	SE							
8	4	4	SW	SE							
9	4	4	SW	SE							
10	4	4	SW	SE							
11	4	4	SW	SE							
12	4	4	SW	SE							
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct. Obs. Dble. Alt.	29 47 12	By Acct. Chron. Lunar.	37 38 24		Per Azimuth, " Amplitude,	12° 30'
Miles distance per Log.			46	Diff. Lat.	Diff. Long.		Inches in the well.		Set of the current, M.		

IL	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air. Wat.	SOUNDINGS.	OCCURRENCES.	Saturday July 18 <sup>th</sup>	1840
1	5	5	SW	SE							
2	5	5	SW	SE							
3	5	5	SW	SE							
4	5	5	SW	SE							
5	5	5	SW	SE							
6	5	5	SW	SE							
7	5	5	SW	SE							
8	5	5	SW	SE							
9	5	5	SW	SE							
10	5	5	SW	SE							
11	5	5	SW	SE							
12	5	5	SW	SE							
1	5	5	SW	SE							
2	5	5	SW	SE							
3	5	5	SW	SE							
4	5	5	SW	SE							
5	5	5	SW	SE							
6	5	5	SW	SE							
7	5	5	SW	SE							
8	5	5	SW	SE							
9	5	5	SW	SE							
10	5	5	SW	SE							
11	5	5	SW	SE							
12	5	5	SW	SE							
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct. Obs. Dble. Alt.	27 45 12	By Acct. Chron. Lunar.	38 13 11		Per Azimuth, " Amplitude,	12° 30'
Miles distance per Log.			132	Diff. Lat.	Diff. Long.		Inches in the well.		Set of the current, M.		





*Brig. Flotilla of Sale from Boston to the Equator* 21<sup>st</sup> DAY OF THE VOYAGE 1860

II.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM.	SOUND.	OCURRENCES.	TIME.	
						alt. Fath.	Air. Wat.	Ings.			
1	1/4	1/4	SE	SE	1/2				Throughout this Day Disturbance from light the long sea was in heavy irregular swell Nothing in sight to day!	13 40	
2	1/4	1/4									
3	1/4	1/4									
4	1/4	1/4	SE								
5	1/4	1/4									
6	1/4	1/4	SE								
7	1/4	1/4									
8	1/4	1/4	SE								
9	1/4	1/4									
10	1/4	1/4									
11	1/4	1/4									
12	1/4	1/4									
1	1/4	1/4									
2	1/4	1/4									
3	1/4	1/4									
4	1/4	1/4	SE								
5	1/4	1/4									
6	1/4	1/4	SE	East							
7	1/4	1/4									
8	1/4	1/4	SE	East							
9	1/4	1/4									
10	1/4	1/4									
11	1/4	1/4									
12	1/4	1/4									
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct.	Obs.	By Acct.	Chron.		Per Azimuth,	
					Dist. Alt.	6 20 22		Lunar,	34 20 11	" Amplitude,	
Miles distance per Log.			172	Diff. Lat.			Diff. Long.		Inches in the well.	Set of the cur. Cat.	N.

II.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM.	SOUND.	OCURRENCES.	TIME.	
						alt. Fath.	Air. Wat.	Ings.			
1	1/4	1/4	SE	SE	1/2				Throughout this Day Fresh Trade, & occasional squalls. Morning I saw two small Lemmy, North.	13 40	
2	1/4	1/4									
3	1/4	1/4									
4	1/4	1/4									
5	1/4	1/4									
6	1/4	1/4									
7	1/4	1/4									
8	1/4	1/4									
9	1/4	1/4									
10	1/4	1/4									
11	1/4	1/4									
12	1/4	1/4									
1	1/4	1/4	SE						Current N. by E. by S.		
2	1/4	1/4									
3	1/4	1/4									
4	1/4	1/4									
5	1/4	1/4									
6	1/4	1/4									
7	1/4	1/4									
8	1/4	1/4									
9	1/4	1/4									
10	1/4	1/4									
11	1/4	1/4									
12	1/4	1/4									
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct.	Obs.	By Acct.	Chron.		Per Azimuth,	
					Dist. Alt.	17 56 22		Lunar,	32 39 11	" Amplitude,	11 30 11
Miles distance per Log.			168	Diff. Lat.			Diff. Long.		Inches in the well.	Set of the current.	N.





Big "Rattling" from Boston

to the Equator

20 DAY  
OF THE VENTURE.

IL	K.	P.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air, Wat.	SOUND- INGS.	OCURRENCES.	Latitude	Longitude	Bearing & Distance.	Variation	P. M. A. M.
1	6		SE	SE	1/2									
2	6													
3	6													
4	6													
5	6													
6	6													
7	6		SE											
8	6													
9	6		SE											
10	6													
11	6													
12	6													
1	6													
2	6													
3	6													
4	6													
5	6													
6	6		SE	SE										
7	6													
8	6		SE											
9	6													
10	6													
11	6		SE	East										
12	4													
Through the Day Moderate Breeze with occasional squalls of Rain														
Current N 41 E. 19 miles														
Course.			Dist.	Depart.	Latitude.	Longitude.	Bearing & Distance.	Variation	P. M. A. M.					
					By Acct. Obs. Dble. Alt.	12 06 2	By Acct. Chron. Lunar.	30. 05 7	Per Azimuth, " Amplitude.	8° 30 11				
Miles distance per Log. 141					Diff. Lat.	Diff. Long.	Inches in the well.	Set of the current. 17 1/2						

IL	K.	P.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air, Wat.	SOUND- INGS.	OCURRENCES.	
1	6	4	SE	SE	1/2				Onward with the gentle breeze moderate the breeze with squalls of rain at 10.40. Am. started back to sea in the off. 10.40. Am. Took a light breeze 10.40. Am. 10.40. Am. 10.40. Am. From 10.40. Am. Variable with rain	
2	6	4	SE	East						
3	6	4	SE	East						
4	6	4								
5	6									
6	6		SE							
7	6									
8	5		SE	SE						
9	5		SE	SE						
10	5									
11	4									
12	4									
1	4								Onward with the gentle breeze moderate the breeze with squalls of rain at 10.40. Am. started back to sea in the off. 10.40. Am. Took a light breeze 10.40. Am. 10.40. Am. 10.40. Am. From 10.40. Am. Variable with rain	
2	4									
3	4									
4	4		SE	SE						
5	4									
6	4									
7	4									
8	4		SE	SE						
9	4									
10	4		SE	SE						
11	2		SE	SE						
12	2			North		30.05-50				
Course.			Dist.	Depart.	Latitude.	Longitude.	Bearing & Distance.	Variation	P. M. A. M.	
					By Acct. Obs. Dble. Alt.	10 19 2	By Acct. Chron. Lunar.	29 10 7	Per Azimuth, " Amplitude,	10° 10 11
Miles distance per Log.					Diff. Lat.	Diff. Long.	Inches in the well.	Set of the current,	M.	

*Brig Hunter* from *North* to the *Equator* 27<sup>th</sup> DAY OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LEE Way.	BAROM.	Thermom. Air/Wat.	SECOND-INGS.	Occurrence		
1	3		N 1/2 E	N East 1/2					Commenced with 1 unit 2 day		
2	3		E	East variable					Slight variable air with frequent		
3	3								gales of rain.		
4	2			South					At 4 days after 10, found Southward		
5	1								H.S. the look a 1/2 mile from S.W.		
6	1								morning I am a South side North?		
7	4										
8	1								Commenced light breeze from S.W.		
9	4								light air, with a beautiful breeze		
10	1								the sail set by the wind & 1/2		
11	4										
12	1										
1	2										
2	1										
3	5										
4	5										
5	5										
6	2										
7	4										
8	4										
9	4										
10	4										
11	4										
12	4										
						30.05 to	Current N 41 E 15 miles				
						a					
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P.M. A.M.
					By Acct.	9.40 N	By Acct.	28 20 W	Per Azimuth,		10 1/2 W
					Obs.		Chron.		" Amplitude,		
					Dutch Alt.		Lunar,				
Miles distance per Log. 68						Diff. Lat.		Diff. Long.		Inches in the well.	
										Set of the current, 15 N 48 E	

H.	K.	F.	COURSES.	WINDS.	Lee Way.	BAROM.	Thermom. Air/Wat.	Sound.	Occurrence	
1	4	40	S 1/2 E	S 1/2 E	30.05	50			Commenced light breeze from S.W.	
2	4	40	S 1/2 E	S 1/2 E					with a heavy headwind	
3	4	40	S 1/2 E	S 1/2 E					the light breeze from South faded	
4	4	40	S 1/2 E	S 1/2 E					to the S.W.	
5	4	40	S 1/2 E	S 1/2 E					moderate light breeze air with	
6	2	40	S 1/2 E	S 1/2 E					rain & clouds	
7	2	40	S 1/2 E	S 1/2 E					the light breeze & clouds	
8	2	40	S 1/2 E	S 1/2 E					morning, light breeze from S.W.	
9	2	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
10	2	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
11	2	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
12	2	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
1	1	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
2	1	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
3	1	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
4	1	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
5	1	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
6	1	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
7	1	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
8	1	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
9	1	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
10	1	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
11	1	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
12	1	40	S 1/2 E	S 1/2 E					the light breeze from S.W.	
					30.05 to	Current N 56 E 14 miles				
COURSE.	DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.		VARIATION	P.M. A.M.
			By Acct.	9 24 N	By Acct.	27 20 W	Per Azimuth,		11 1/2 W	
			Obs.		Chron.		" Amplitude,			
Miles distance per Log. 60			Diff. Lat.		Diff. Long.		Inches in the well.		Set of the current, 24 N 48 E	

*Y. Pigeon* from Boston to the Equator 29<sup>th</sup> DAY OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. AIR, W.	SOUND- INGS.	OCCURRENCES	
1	3		SE	W	34				Wednesday July 29 <sup>th</sup> 40	
2	3		SE	W					Commenced with gentle midday	
3	3		SE	W					Moderate with pleasant weather	
4	3		SE	W						
5	3		SE	W					From midday till noon fresh breeze	
6	3		SE	W					with fresh squalls of rain	
7	3		SE	W						
8	3		SE	W					From 12 noon strong breeze with heavy	
9	3		SE	W					rain feeling heavy at 10 o'clock	
10	3		SE	W					Staff top sail.	
11	3		SE	W					Filled up all our water except	
12	3		SE	W					about 120 Gals.	
1	6		SE	W						
2	6		SE	W						
3	6		SE	W						
4	6		SE	W						
5	6		SE	W						
6	6		SE	W						
7	6		SE	W						
8	6		SE	W						
9	6		SE	W						
10	6		SE	W						
11	6		SE	W						
12	6		SE	W						
					By Acct. Obs. Diffe. Alt.	8 28 2	By Acct. Chron. Lunar.	25 50 12 2 30 20 06	Per Azimuth " Amplitude.	11 West
Miles distance per Log. 101					Diff. Lat.		Diff. Long.		Inches in the well.	Set of the current. 40. N.E.

H.	K.	F.	COURSES	WINDS	LEE WAY.	BAROM.	THERMOM. AIR, WAT.	SOUND- INGS.	OCCURRENCES	
1	6		SE	SW	34				Thursday July 30 <sup>th</sup> 40	
2	6		SE	SW					Commenced with light breeze	
3	6		SE	SW					with occasional squalls of rain	
4	6		SE	SW					and a heavy head sea	
5	6		SE	SW					At 10 o'clock the wind shifted to S.W.	
6	6		SE	SW					and the sea ran a good strain N.E.	
7	6		SE	SW					At 12 o'clock the wind shifted to S.	
8	6		SE	SW					At 1 o'clock the wind shifted to S.W.	
9	6		SE	SW					At 2 o'clock the wind shifted to S.W.	
10	6		SE	SW					At 3 o'clock the wind shifted to S.W.	
11	6		SE	SW					At 4 o'clock the wind shifted to S.W.	
12	6		SE	SW					At 5 o'clock the wind shifted to S.W.	
1	6		SE	SW					At 6 o'clock the wind shifted to S.W.	
2	6		SE	SW					At 7 o'clock the wind shifted to S.W.	
3	6		SE	SW					At 8 o'clock the wind shifted to S.W.	
4	6		SE	SW					At 9 o'clock the wind shifted to S.W.	
5	6		SE	SW					At 10 o'clock the wind shifted to S.W.	
6	6		SE	SW					At 11 o'clock the wind shifted to S.W.	
7	6		SE	SW					At 12 o'clock the wind shifted to S.W.	
8	6		SE	SW					At 1 o'clock the wind shifted to S.W.	
9	6		SE	SW					At 2 o'clock the wind shifted to S.W.	
10	6		SE	SW					At 3 o'clock the wind shifted to S.W.	
11	6		SE	SW					At 4 o'clock the wind shifted to S.W.	
12	6		SE	SW					At 5 o'clock the wind shifted to S.W.	
					By Acct. Obs. Diffe. Alt.	7 09 30	By Acct. Chron. Lunar.	22 54 10	Per Azimuth " Amplitude.	120 West
Miles distance per Log. 103					Diff. Lat.	68'	Diff. Long.	2° 58'	Inches in the well.	Set of the current. 62. N.E.



1846. Rattle of Salem from 10.00 a.m.

to the Equator

31st DAY OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LET. WAY.	BAROM.	THERMOM. AIR.	SOUND-ING.	OCCURRENCES.	Day of	1846
1	11	11	S. by E	S. by E	1/2	30.00	72			Friday	July 31st
2	11	11	S. by E	S. by E	1/2						
3	11	11	S. by E	S. by E	1/2						
4	11	11	S. by E	S. by E	1/2						
5	11	11	S. by E	S. by E	1/2						
6	11	11	S. by E	S. by E	1/2						
7	11	11	S. by E	S. by E	1/2						
8	11	11	S. by E	S. by E	1/2						
9	11	11	S. by E	S. by E	1/2						
10	11	11	S. by E	S. by E	1/2						
11	11	11	S. by E	S. by E	1/2						
12	11	11	S. by E	S. by E	1/2						
1	11	11	S. by E	S. by E	1/2						
2	11	11	S. by E	S. by E	1/2						
3	11	11	S. by E	S. by E	1/2						
4	11	11	S. by E	S. by E	1/2						
5	11	11	S. by E	S. by E	1/2						
6	11	11	S. by E	S. by E	1/2						
7	11	11	S. by E	S. by E	1/2						
8	11	11	S. by E	S. by E	1/2						
9	11	11	S. by E	S. by E	1/2						
10	11	11	S. by E	S. by E	1/2						
11	11	11	S. by E	S. by E	1/2						
12	11	11	S. by E	S. by E	1/2						
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acet. Obs. Alt.	6.55	By Acet. Chron. Lunar.	25.00		Per Azimuth, " Amplitude,	14. West
Miles distance per Log. 1/2					Diff. Lat.	58'	Diff. Long.	6'	Inches in the well.	Set of the current, 12. 66 S.	

Throughout the Day Fine Breeze  
Air Breeze & clouds with a heavy  
sea from S. by E. the air  
4.00 P. M. Fog & misty to W. W. W.  
4.40 P. M. Sea & sky strong, better?

Current S. by E. 1/2 miles

H.	K.	F.	COURSES.	WINDS.	LET. WAY.	BAROM.	THERMOM. AIR.	SOUND-ING.	OCCURRENCES.	Day of	1846
1	5	11	N. by E	N. by E	1/2	30.00	72			Saturday	Aug 1st
2	5	11	N. by E	N. by E	1/2						
3	5	11	N. by E	N. by E	1/2						
4	5	11	N. by E	N. by E	1/2						
5	5	11	N. by E	N. by E	1/2						
6	5	11	N. by E	N. by E	1/2						
7	5	11	N. by E	N. by E	1/2						
8	5	11	N. by E	N. by E	1/2						
9	5	11	N. by E	N. by E	1/2						
10	5	11	N. by E	N. by E	1/2						
11	5	11	N. by E	N. by E	1/2						
12	5	11	N. by E	N. by E	1/2						
1	5	11	N. by E	N. by E	1/2						
2	5	11	N. by E	N. by E	1/2						
3	5	11	N. by E	N. by E	1/2						
4	5	11	N. by E	N. by E	1/2						
5	5	11	N. by E	N. by E	1/2						
6	5	11	N. by E	N. by E	1/2						
7	5	11	N. by E	N. by E	1/2						
8	5	11	N. by E	N. by E	1/2						
9	5	11	N. by E	N. by E	1/2						
10	5	11	N. by E	N. by E	1/2						
11	5	11	N. by E	N. by E	1/2						
12	5	11	N. by E	N. by E	1/2						
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acet. Obs. Alt.	5.40	By Acet. Chron. Lunar.	24.00		Per Azimuth, " Amplitude,	15°
Miles distance per Log. 1/2					Diff. Lat.		Diff. Long.		Inches in the well.	Set of the current, N.	

Throughout the Day Moderate  
Breeze & clouds with a heavy sea from  
S. by E. the air  
4.00 P. M. Fog & misty to S. by E. the air

No Obs. at Meridian



*Br. Taddler & Salem from Boston*

to the Equator

35<sup>th</sup>  
DAY  
OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LEE Way.	BAROM. inches.	THERMOM. Air & Wat.	SOUND- INGS.	OCCURRENCES.											
Tuesday Day of August 11. 1840																				
1	e		1.30 N	Wind		29.5	50.0	12												
2	e																			
3	e																			
4	e																			
5	e	4																		
6	e																			
7	e																			
8	e																			
9	e																			
10	e																			
11	e		1.30 S	Wind																
12	e																			
1	e																			
2	e																			
3	e																			
4	e																			
5	e		1.30 N	Wind																
6	e																			
7	e		1.30 S	Wind																
8	e		1.30 S	Wind																
9	e		1.30 S	Wind																
10	e																			
11	e																			
12	e																			
COURSE.					DIST.		DEPART.		LATITUDE.		LONGITUDE.		BEARING & DISTANCE.		VARIATION		P. M. A. M.			
									By Acet. Obs. Diffe. Alt.		38° 4'		By Acet. Chron. Lunar.		23° 00'		Per Azimuth, " Amplitude,		13° 30'	
Miles distance per Log. 12 1/2										Diff. Lat.		58'		Diff. Long.		1° 0'		Inches in the well. Set of the current, m.		

[illegible]



# King Pattern of Salem from Boston to the Bay

34<sup>th</sup> DAY  
OF THE VOYAGE.

H.	K.	P.	COURSES.	WINDS.	Lee Way.	Barom.	Thermom.	Sound.	Occurrences.	Time.	Day of	1840
1	7		1. a West	South	2	29.00	50				Monday	Aug 1 <sup>st</sup>
2	7		2. a West	South								
3	7		3. a West	South								
4	7		4. a West	South								
5	7		5. a West	South								
6	7		6. a West	South								
7	7		7. a West	South								
8	7		8. a West	South								
9	6	4	9. a West	South								
10	6	6	10. a West	South								
11	6	6	11. a West	South								
12	6	6	12. a West	South								
1	6	6	1. a West	South								
2	6	6	2. a West	South								
3	6	6	3. a West	South								
4	6	6	4. a West	South								
5	6	6	5. a West	South								
6	6	6	6. a West	South								
7	6	6	7. a West	South								
8	6	6	8. a West	South								
9	6	6	9. a West	South								
10	5	5	10. a West	South								
11	5	5	11. a West	South								
12	4	4	12. a West	South								

First Middle Part of Time 15 miles  
Foggy Squalls.  
Later Part Moderate & pleasant

Current S by W 4 miles

COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION.	P. M. A. M.	
			By Acct. Obs. Duple. Alt.	112° 50'	By Acct. Chron. Lunar.	26 14' N	Per Azimuth. " Amplitude.	139 Miles
Miles distance per Log.		148	Diff. Lat.	Diff. Lon.	2° 40'	Inches in the well.	Set of the current.	42 Miles

H.	K.	P.	COURSES.	WINDS.	Lee Way.	Barom.	Thermom.	Sound.	Occurrences.	Time.	Day of	1840
1	5	4	1. a West	South							Tuesday	Aug 1 <sup>st</sup>
2	5	4	2. a West	South								
3	5	4	3. a West	South								
4	5	4	4. a West	South								
5	5	4	5. a West	South								
6	5	4	6. a West	South								
7	5	4	7. a West	South								
8	5	4	8. a West	South								
9	5	4	9. a West	South								
10	5	4	10. a West	South								
11	5	4	11. a West	South								
12	5	4	12. a West	South								
1	5	4	1. a West	South								
2	5	4	2. a West	South								
3	5	4	3. a West	South								
4	5	4	4. a West	South								
5	5	4	5. a West	South								
6	5	4	6. a West	South								
7	5	4	7. a West	South								
8	5	4	8. a West	South								
9	5	4	9. a West	South								
10	5	4	10. a West	South								
11	5	4	11. a West	South								
12	5	4	12. a West	South								

3. a West 15 miles  
pleasant weather  
At 5. P.M. 2. a West 15 miles  
Long was 26.15 West  
At 7. P.M. 2. a West 15 miles  
This is the first time since we sailed  
I have had of getting underway

Current S by W 3 1/2 miles

COURSE.	DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.		VARIATION.	P. M. A. M.
			By Acct. Obs. Dble. Alt.	053 25'	By Acct. Chron. Lunar.	27 23' N 27 18' N			Per Azimuth. " Amplitude.	120 Miles
Miles distance per Log.			129	Diff. Lat.	2° 06'	Diff. Long.	1° 09'	Inches in the well.	Set of the current, 20 Miles	

Miss Tatler & Son from Boston

towards, *Love of God* *grace* *DAY*  
OF THE VOYAGE.

H.	K.	P.	COURSES.	WINDS.	LEE WAY.	BAROM. Air/Wat.	SOUND- INGS.	OCCURRENCES.
1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81
82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99
100	101	102	103	104	105	106	107	108
109	110	111	112	113	114	115	116	117
118	119	120	121	122	123	124	125	126
127	128	129	130	131	132	133	134	135
136	137	138	139	140	141	142	143	144
145	146	147	148	149	150	151	152	153
154	155	156	157	158	159	160	161	162
163	164	165	166	167	168	169	170	171
172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189
190	191	192	193	194	195	196	197	198
199	200	201	202	203	204	205	206	207
208	209	210	211	212	213	214	215	216
217	218	219	220	221	222	223	224	225
226	227	228	229	230	231	232	233	234
235	236	237	238	239	240	241	242	243
244	245	246	247	248	249	250	251	252
253	254	255	256	257	258	259	260	261
262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279
280	281	282	283	284	285	286	287	288
289	290	291	292	293	294	295	296	297
298	299	300	301	302	303	304	305	306
307	308	309	310	311	312	313	314	315
316	317	318	319	320	321	322	323	324
325	326	327	328	329	330	331	332	333
334	335	336	337	338	339	340	341	342
343	344	345	346	347	348	349	350	351
352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369
370	371	372	373	374	375	376	377	378
379	380	381	382	383	384	385	386	387
388	389	390	391	392	393	394	395	396
397	398	399	400	401	402	403	404	405
406	407	408	409	410	411	412	413	414
415	416	417	418	419	420	421	422	423
424	425	426	427	428	429	430	431	432
433	434	435	436	437	438	439	440	441
442	443	444	445	446	447	448	449	450
451	452	453	454	455	456	457	458	459
460	461	462	463	464	465	466	467	468
469	470	471	472	473	474	475	476	477
478	479	480	481	482	483	484	485	486
487	488	489	490	491	492	493	494	495
496	497	498	499	500	501	502	503	504
505	506	507	508	509	510	511	512	513
514	515	516	517	518	519	520	521	522
523	524	525	526	527	528	529	530	531
532	533	534	535	536	537	538	539	540
541	542	543	544	545	546	547	548	549
550	551	552	553	554	555	556	557	558
559	560	561	562	563	564	565	566	567
568	569	570	571	572	573	574	575	576
577	578	579	580	581	582	583	584	585
586	587	588	589	590	591	592	593	594
595	596	597	598	599	600	601	602	603
604	605	606	607	608	609	610	611	612
613	614	615	616	617	618	619	620	621
622	623	624	625	626	627	628	629	630
631	632	633	634	635	636	637	638	639
640	641	642	643	644	645	646	647	648
649	650	651	652	653	654	655	656	657
658	659	660	661	662	663	664	665	666
667	668	669	670	671	672	673	674	675
676	677	678	679	680	681	682	683	684
685	686	687	688	689	690	691	692	693
694	695	696	697	698	699	700	701	702
703	704	705	706	707	708	709	710	711
712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729
730	731	732	733	734	735	736	737	738
739	740	741	742	743	744	745	746	747
748	749	750	751	752	753	754	755	756
757	758	759	760	761	762	763	764	765
766	767	768	769	770	771	772	773	774
775	776	777	778	779	780	781	782	783
784	785	786	787	788	789	790	791	792
793	794	795	796	797	798	799	800	801
802	803	804	805	806	807	808	809	810
811	812	813	814	815	816	817	818	819
820	821	822	823	824	825	826	827	828
829	830	831	832	833	834	835	836	837
838	839	840	841	842	843	844	845	846
847	848	849	850	851	852	853	854	855
856	857	858	859	860	861	862	863	864
865	866	867	868	869	870	871	872	873
874	875	876	877	878	879	880	881	882
883	884	885	886	887	888	889	890	891
892	893	894	895	896	897	898	899	900
901	902	903	904	905	906	907	908	909
910	911	912	913	914	915	916	917	918
919	920	921	922	923	924	925	926	927
928	929	930	931	932	933	934	935	936
937	938	939	940	941	942	943	944	945
946	947	948	949	950	951	952	953	954
955	956	957	958	959	960	961	962	963
964	965	966	967	968	969	970	971	972
973	974	975	976	977	978	979	980	981
982	983	984	985	986	987	988	989	990
991	992	993	994	995	996	997	998	999
1000	1001	1002	1003	1004	1005	1006	1007	1008
1009	1010	1011	1012	1013	1014	1015	1016	1017
1018	1019	1020	1021	1022	1023	1024	1025	1026
1027	1028	1029	1030	1031	1032	1033	1034	1035
1036	1037	1038	1039	1040	1041	1042	1043	1044
1045	1046	1047	1048	1049	1050	1051	1052	1053
1054	1055	1056	1057	1058	1059	1060	1061	1062
1063	1064	1065	1066	1067	1068	1069	1070	1071
1072	1073	1074	1075	1076	1077	1078	1079	1080
1081	1082	1083	1084	1085	1086	1087	1088	1089
1090	1091	1092	1093	1094	1095	1096	1097	1098
1099	1100	1101	1102	1103	1104	1105	1106	1107
1108	1109	1110	1111	1112	1113	1114	1115	1116
1117	1118	1119	1120	1121	1122	1123	1124	1125
1126	1127	1128	1129	1130	1131	1132	1133	1134
1135	1136	1137	1138	1139	1140	1141	1142	1143
1144	1145	1146	1147	1148	1149	1150	1151	1152
1153	1154	1155	1156	1157	1158	1159	1160	1161
1162	1163	1164	1165	1166	1167	1168	1169	1170
1171	1172	1173	1174	1175	1176	1177	1178	1179
1180	1181	1182	1183	1184	1185	1186	1187	1188
1189	1190	1191	1192	1193	1194	1195	1196	1197
1198	1199	1200	1201	1202	1203	1204	1205	1206
1207	1208	1209	1210	1211	1212	1213	1214	1215
1216	1217	1218	1219	1220	1221	1222	1223	1224
1225	1226	1227	1228	1229	1230	1231	1232	1233
1234	1235	1236	1237	1238	1239	1240	1241	1242
1243	1244	1245	1246	1247	1248	1249	1250	1251
1252	1253	1254	1255	1256	1257	1258	1259	1260
1261	1262	1263	1264	1265	1266	1267	1268	1269
1270	1271	1272	1273	1274	1275	1276	1277	1278
1279	1280	1281	1282	1283	1284	1285	1286	1287
1288	1289	1290	1291	1292	1293	1294	1295	1296
1297	1298	1299	1300	1301	1302	1303	1304	1305
1306	1307	1308	1309	1310	1311	1312	1313	1314
1315	1316	1317	1318	1319	1320	1321	1322	1323
1324	1325	1326	1327	1328	1329	1330	1331	1332
1333	1334	1335	1336	1337	1338	1339	1340	1341
1342	1343	1344	1345	1346	1347	1348	1349	1350
1351	1352	1353	1354	1355	1356	1357	1358	1359
1360	1361	1362	1363	1364	1365	1366	1367	1368
1369	1370	1371	1372	1373	1374	1375	1376	1377
1378	1379	1380	1381	1382	1383	1384	1385	1386
1387	1388	1389	1390	1391	1392	1393	1394	1395
1396	1397	1398	1399	1400	1401	1402	1403	1404
1405	1406	1407	1408	1409	1410	1411	1412	1413
1414	1415	1416	1417	1418	1419	1420	142	

H. K. F. COURSES. WINDS. LEW. WAT. BAROM. THERMOM. AIR. WAT. SOONDS INDG. OCCURRENCES.										400 Day
1	8		S. E. 71°	E. 1/2 S.		32.07	73			Throughout this day brisk E. 1/2 S. trade & fine weather with much sea.
2	8									
3	8									
4	8									
5	8									
6	4									
7	4									
8	4									
9	4									
10	4									
11	4									
12	4									
1	4		S. 1/2 E.							
2	4									
3	4									
4	4									
5	4									
6	4									
7	4									
8	4									
9	4									
10	4									
11	4									
12	4					32.10.50				Current S. 71° W. 1/2 S.
COURSE. DIST. DEPART. LATITUDE. LONGITUDE. BEARING & DISTANCE. VARIATION P. M. A. M.										
By Acct. Obs. Dble. Alt. 10.50.50 By Acct. Circum. Lunar. 28.52.40 Per Azimuth, " Amplitude, 10.25.00										
Miles distance per Log. 17.8 Diff. Lat. 30.09' Diff. Long. 57' Inches in the well. Set of the current, N.										

Brig *Reattle of Sales* from the Equator towards Trinidad 41<sup>st</sup> DAY OF THE VOYAGE.

IL	K.	F.	COURSES	WINDS	LEE WAY.	BAROM.	THERMOM. Air & Wat.	SOUNDINGS	OCCURRENCES
1	7		E. by N. West	East		30.0750			Throughout this Day Fine Trades and pleasant weather. Day very hazy from E. & Eastward.
2	7								
3	7								
4	7								
5	7	4							
6	7	4							
7	7	4	E. by N. West						
8	7	4							
9	7	4	S. by W.						
10	7	4							
11	7	4							
12	7	4							
1	7	4							Current S by W 1/4 g miles
2	7	4							
3	7	4							
4	7	4							
5	7	4	E. by N. West						
6	7	4							
7	7	4	S. by W.						
8	7	4							
9	7	4	E. by N. West						
10	7	4							
11	7	4							
12	7	4							

COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.
			By Acct. Obs. Dble. Alt.	9.408 By Ave. Chron. Lunar.	29.334	Per Azimuth. " Amplitude.	9° West by 1/2
Miles distance per Log. 17 1/2			Diff. Lat. 2° 50'	Diff. Long. 41'	Inches in the well.	Set of the current.	9 S by W 1/2

IL	K.	F.	COURSES	WINDS	LEE WAY.	BAROM.	THERMOM. Air & Wat.	SOUNDINGS	OCCURRENCES
1	7		E. by N. West	West		30.0751			First and Middle Part Fresh Trades and occasional calm. Set S. by W. West & backing. Wind sometimes fresh Trades and pleasant weather, all set by the wind.
2	7								
3	7	4	E. by N. West						
4	7	4							
5	7	4							
6	7	4							
7	7	4							
8	7	4							
9	7	4							
10	7	4							
11	7	4							
12	7	4							
1	7	4							Current S by W 1/2 miles
2	7	4							
3	7	4							
4	7	4							
5	7	4							
6	7	4							
7	7	4							
8	7	4							
9	7	4							
10	7	4							
11	7	4							
12	7	4							

COURSE.	DIST.	DEPART.	LATITUDE.		LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.
			By Acct. Obs. Dble. Alt.	12.3750	By Acct. Chron. Lunar.	30.154	Per Azimuth, " Amplitude,	9° West by 1/2
Miles distance per Log. 18			Diff. Lat.	2.5	Diff. Long.	1.12	fathes in the well.	Set of the current. 9 S by W 1/2



*Brig. "Tatter Salem" from the Equator towards Trinidad*

43<sup>740</sup> DAY  
OF THE VOYAGE.

IL	K.	P.	COURSES.	WINDS.	Lee Way.	Barom.	Thermom. Air.	Wet.	Sound-ings.	OCCURRENCES.	Wednesday Aug. 12 <sup>th</sup>	1842
1	11	11	0.5. N	E. by N		30.10					immense wind "Lush" Trades and fogging squalls of rain	
2	11	11										
3	11	11										
4	11	11										
5	11	11	0.5. N	W. by N							light & Lush Trade from S.W. by S. + pleasant weather. At 1. set of S. by S. steady sail	
6	11	11										
7	11	11										
8	11	11										
9	11	11									Current 1. set 3.5 miles	
10	11	11										
11	11	11										
12	11	11										
1	11	11										
2	11	11										
3	11	11										
4	11	11										
5	11	11										
6	11	11										
7	11	11										
8	11	11										
9	11	11										
10	11	11										
11	11	11										
12	11	11										

COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.
			By Acet. Obs. Dble. Alt.	10.28.50	By Acet. Chron. Lunar.	31.55.11	Per Azimuth, " Amplitude, 89.40.00
Miles distance per Log. 175			Diff. Lat. 2° 57'	Diff. Long. 1° 10'	Inches in the well.	Set of the current,	m.

IL	K.	P.	COURSES.	WINDS.	Lee Way.	Barom.	Thermom. Air.	Wet.	Sound-ings.	OCCURRENCES.	Thursday Aug 13 <sup>th</sup>	1842
1	6	6	0.5. N	E. by N		30.10					Throughout this Day South Trade fresh weather and smooth sea with or rather light squalls	
2	6	6										
3	6	6										
4	6	6	0.5. N	W. by N								
5	6	6										
6	6	6										
7	6	6										
8	6	6										
9	6	6										
10	6	6										
11	6	6										
12	6	6										
1	6	6										
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9	6	6										
10	6	6										
11	6	6										
12	6	6										

COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.
			By Acet. Obs. Dble. Alt.	10.28.50	By Acet. Chron. Lunar.	31.55.11	Per Azimuth, " Amplitude, 89.40.00
Miles distance per Log. 140			Diff. Lat. 2° 34'	Diff. Long. 1° 20'	Inches in the well.	Set of the current,	m.

*Brig "Hatter of Salem" from the Equator to the Cape of Good Hope* 1848  
DAY OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	TEMPER.	SEA-STATE.	OCURRENCES.	Friday Aug 14th	1848
1	5		S by West	S by East		30.278					
2	5										
3	5										
4	5										
5	5										
6	5										
7	5		S by West	East							
8	5										
9	5		S by West								
10	5										
11	5										
12	5										
1	4		S by West								
2	4										
3	4										
4	4										
5	4										
6	4										
7	4		S by West	by E							
8	4		S by E	by E							
9	4										
10	3										
11	3										
12	2					30.278					
			COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION.	P. M. A. M.	
						By Acct. Obs. Dble. Alt. 20 06 50	By Acct. Chron. Lunar 23 42	Spent and Found 5 55 6. 28 miles distant	Per Azimuth, 2 1/2 West	" Amplitude, 1 1/2 West	
			Miles distance per Log. 107			Diff. Lat. 2° 04'	Diff. Long. 27'	Inches in the well.	Set of the current, 24 mi. South		

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	TEMPER.	SEA-STATE.	OCURRENCES.	Saturday Aug 15th	1848
1	2		S by West	E by N		30.20					
2	2										
3	2										
4	2										
5	2										
6	2										
7	2	11									
8	2	11	S by E	North							
9	3	11									
10	3	4		N by W							
11	4										
12	4										
1	4	4									
2	4	4									
3	4	4									
4	5			N West							
5	6										
6	6										
7	6										
8	7										
9	7										
10	8										
11	8										
12	8			N by W		30.076					
			COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION.	P. M. A. M.	
						By Acct. Obs. Dble. Alt. 21 36 50	By Acct. Chron. Lunar 32 56 17		Per Azimuth, 3 1/2 West	" Amplitude, 3 1/2 West	
			Miles distance per Log. 108			Diff. Lat. 1° 30'	Diff. Long. 46'	Inches in the well.	Set of the current, 3.		

From Rattle of Salem from Boston

to the Cape of Good Hope 17th DAY OF THE VOYAGE.

II.	K.	F.	COURSES.	WINDS.	LEE Way.	BAROM.	Thermom. Air Wat.	SOUNDINGS.	OCCURRENCES.	Time of Day	1845
1	6	4	SE 1/2 E	Light	1/2	30.15	71		At 12:20. In a sudden squall squall the wind shifted from West to S 1/2 W. In an hour the ship was under full sail.	Aug 16th	1845
2	6	4									
3	6	4									
4	6	4									
5	6	4	SE 1/2 E						Light Breeze from S 1/2 E and 1/2 S.		
6	6	4							At 2 o'clock a very strong N. E. wind.		
7	6	4							At 4 o'clock a ship was at sea, do. do.		
8	6	4	SE 1/2 E						At 11 o'clock moderate S. by E. wind with a heavy swell from N. W.		
9	6	4							From Cape Codgezons.		
10	6	4									
11	6	4									
12	6	4									
1	6	4							From our observations I judge our course to be out of order, probably during the time of the squall on board, as upon the 16th we made less than 100 miles and upon the 17th we made more.		
2	6	4									
3	6	4									
4	6	4	SE 1/2 E								
5	6	4									
6	6	4	SE 1/2 E								
7	6	4									
8	6	4	SE 1/2 E								
9	6	4									
10	6	4	SE 1/2 E	Light							
11	6	4									
12	6	4									
					By Acct. Obs. Alt.	22 40 6	By Acct. Chron. Lunar.	29 18 1/2	Per Azimuth, " Amplitude,	6 West.	
Miles distance per Log.					152	Diff. Lat.	1° 04'	Diff. Long.	Inches in the well.	Set of the current.	2 E 1/2 S

II.	K.	F.	COURSES.	WINDS.	LEE Way.	BAROM.	Thermom. Air. Wat.	SOUND- INGS.	OCCURRENCES.	Monday Aug 17 <sup>th</sup>	1845	
1	5	5	SE 1/2 E	Light	1/2	30.15	71					
2	5	5										
3	5	5										
4	5	5	SE 1/2 E									
5	5	5										
6	5	5										
7	5	5										
8	5	5										
9	5	5	W by N									
10	2	2										
11	2	2										
12	2	2										
1	2	2										
2	2	2										
3	2	2										
4	2	2	W by N									
5	1	1										
6	1	1										
7	1	1										
8	1	1										
9	1	1	SE 1/2 E	Light								
10	1	4										
11	2	2										
12	3	3										
					30.12 1/2							
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.		VARIATION	P. M. A. M.
					By Acct. Obs. Dble. Alt.	23 02 8	By Acct. Chron. Lunar.	29 38 1/2			Per Azimuth, " Amplitude,	6 West.
Miles distance per Log.					71	Diff. Lat.	22'	Diff. Long.	10'	Inches in the well.	Set of the current.	N.



Big Rattle of Salem from Boston

towards Cape of Good Hope 19th DAY OF THE VOYAGE

II.	K.	F.	COURSES.	WINDS.	LEE WAT.	BAROM.	THERMOM. AIR WAT.	SOUNDINGS.	OCCURRENCES.	DATE	1840
1	2	4	Ny/Wy	SE	1/2	30.12	72			Tuesday Aug 18th	
2	2	4		SE					Commences Moderate & pleasant		
3	2	4		SE					Night Pleasant The wind inclines to		
4	2	4		SE					Set a steady fair, on Sunday		
5	2	4		SE							
6	3	4		SE					Reminds fine breezes and passing		
7	3	4		SE					clouds.		
8	4	4		SE							
9	2	4		SE							
10	3	4		SE							
11	3	4		SE							
12	3	4		SE							
1	4	4		SE							
2	5	4		SE							
3	5	4		SE							
4	5	4		SE							
5	6	4		SE							
6	6	4		SE							
7	7	4		SE							
8	7	4		SE							
9	7	4		SE							
10	7	4		SE							
11	7	4		SE							
12	7	4		SE							
						30.00	72		Current 137 E. 23 miles		
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct.	24.55	By Acct.	28.40		Per Azimuth	
					Obs. Dble. Alt.		Chron. Lunar.	28.56		" Amplitude,	7 West.
Miles distance per Log. 107					Dble Lat.	1.56'	Dble Long.	58'	Inches in the well.	Set of the current, 23 E. 1/2 S.	

II.	K.	F.	COURSES.	WINDS.	LEE WAT.	BAROM.	THERMOM. AIR WAT.	SOUNDINGS.	OCCURRENCES.	DATE	1840
1	7	4	SE	SE		30.00	72			Wednesday Aug 19th	
2	7	4		SE							
3	7	4		SE							
4	7	4		SE							
5	7	4		SE							
6	7	4		SE							
7	7	4		SE							
8	7	4		SE							
9	7	4		SE							
10	7	4		SE							
11	7	4		SE							
12	7	4		SE							
1	7	4		SE							
2	7	4		SE							
3	7	4		SE							
4	7	4		SE							
5	7	4		SE							
6	7	4		SE							
7	7	4		SE							
8	7	4		SE							
9	7	4		SE							
10	7	4		SE							
11	7	4		SE							
12	7	4		SE							
						29.98			Commences with a squally morning		
									fine breezes and cloudy weather		
									terminate fine breezes and having		
									filled up on water casks.		
									In sail set to best advantage		
						29.95	70				
									No Observations		
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct.	2.52	By Acct.	26.52		Per Azimuth	
					Obs. Dble. Alt.		Chron. Lunar.			" Amplitude,	6 1/2 West.
Miles distance per Log. 200					Dble Lat.	2.54	Dble Long.	1.48'	Inches in the well.	Set of the current,	

Ying Kullen of Salem from Boston

to the Cape of Good Hope 51st DAY THE VOYAGE.

H. K. F.			COURSES.	WINDS.	LEE Way.	BAROM.	Thermom.	Sound.	Occurrences		1840
Monday Aug 20th											
1	9	4	S. E.	N. W.		29.95	70		Commodious with Young Breeze Fresh Breeze weather with Thunder Lightening & rain At 4 P. M. the Barometer falling Took in Royal & off Mast & 1st & 2nd top sails At 6 P. M. the 3rd & 4th top sails parted. Sailed in Main sail Midnight strong Breeze & fresh weather with lightning & strong squalls The wind howling to the N. Westward Dipped ship At 4 A. M. more Pleasant for all sail Terminally Moderate & pleasant  Current in the last 2 days N 62 E 30 miles.		
2	9	4									
3	9	4									
4	9	4				29.90					
5	9	4									
6	9	4				29.80					
7	8										
8	8										
9	8										
10	8										
11	8										
12	8					29.80					
1	8			N. W.					Current in the last 2 days N 62 E 30 miles.		
2	8										
3	8			N. West							
4	8										
5	8			N. & N. W.		29.80					
6	8										
7	8										
8	8										
9	8										
10	8					29.80					
11	8										
12	8										
COURSE.			DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.		
S 38 E			158	115.4	By Acet. Obs. Dole. Alt. 20.2000	By Acet. Chron. Lunar. 24.40 W.		Per Azimuth, 2 1/2	Amplitude, 2 1/2		
Miles distance per Log.			185	Diff. Lat. 2° 25'	Diff. Long. 1° 42'	Inches in the well.	Set of the current, 30	18.625			

H.	K.	F.	COURSES.	WINDS.	LEE Way.	BAROM.	Thermom.	Sound.	Occurrences		1840	
Friday Day August 21st												
1	6	6	S 39 E	N.W. 1/2		29.90	70		Commodious Moderate & pleasant Mild Part Looking Pleasant & breezy with squalls & lightning in A.M. Took in Light & sail Morning more pleasant with a few rain & squalls. Terminally Light breeze & pleasant with a long sea from N.W. by S. Current N. 57 E. 20 miles.			
2	6	4										
3	6	4										
4	6	4										
5	6	4										
6	6	4										
7	6	4										
8	6	4										
9	6	4										
10	6	4										
11	6	4										
12	6	4										
1	6	6	S 39 E	N.W. 1/2		29.95	69		Current N. 57 E. 20 miles.			
2	6	6										
3	6	6										
4	6	6										
5	6	6										
6	6	6										
7	6	6										
8	6	6										
9	6	6										
10	6	6										
11	6	6										
12	6	6										
COURSE.			DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.			
S 39 E			161.	102.9	By Acet. Obs. Dole. Alt.	32.24	By Acet. Chron. Lunar.	22.40 W.	Per Azimuth, " Amplitude,	7 30 W.		
Miles distance per Log.			186	Diff. Lat.	2° 01'	Diff. Long.	2° 00'	Inches in the well.	Set of the current, 20.275			

Brig *Racine* from Boston

to the Western Hemisphere 53°  
OF THE VOYAGE.

OF THE VOYAGE.									
II.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM.	SOUND-INGS.	OCCURRENCES.
						Im. Hg.	Air. Wag.	Fms.	
1	6	4	SEnd	NW		29.95	69		First Middle Parts of the Series
2	6	4							passing a quail of rain
3	6	4							
4	6	4							At 4 AM Set the Main sail
5	7	4							
6	7	4							
7	7	4							
8	7	4							
9	7	4							
10	7	4							Commodore, Mr. P. B. & crew, and
11	7	4							pleasant weather
12	7	4							Saw two Albatrosses (these being
									the first we have seen)
1	7	4							
2	7	4							
3	7	4							
4	7	4	SE 4 S						
5	8	4							
6	8	4							
7	8	4							
8	8	4							
9	8	4	SE 4 S N W			29.95			
10	8	4							
11	8	4							
12	8	4				29.95	66		Current N 8 E 22 miles
COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.		
9546	164.	133.3	By Acct. Obs. Dble. Alt.	34.00 00	By Acct. Chron. Lunar.	20 00	W. bear, 86 42 42 42	8 West	
Miles distance per Log.	176	Diff. Lat.	1.36	Diff. Long.	2.40	Inches in the well.	Set of the current	13 48 21	

II.	K.	F.	COURSES.	WINDS.	LEE Way.	BAROM.	THERMOM. Air/Wat.	SOUND- INGS.	OCCURRENCES.	Day	53°
1	8	4	SEnd	NW		29.95	66		First & Middle Parts Time & Breeze and passing Squalls of rain	Sunday	23 <sup>rd</sup>
2	8	4									
3	8	4									
4	8	4									
5	8	4									
6	8	4							Remains Overcast & inclining to a Calm		
7	8	4									
8	8	4									
9	8	4									
10	8	4									
11	8	4									
12	8	4									
1	8	4									
2	8	4									
3	8	4									
4	8	4							Current N 53 E 29 miles		
5	8	4									
6	8	4									
7	6	4									
8	6	4									
9	6	4									
10	4	4									
11	4	4									
12	3										
COURSE.			DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.		
9608			198	179	By Acct. Obs. Dble. Alt.	35.38 38	By Acct. Chron. Lunar.	16 30 48	W. bear, 86 42 42 42	9 West	
Miles distance per Log.			178	Diff. Lat.	1.38'	Diff. Long.	3.10'	Inches in the well.	Set of the current	16 48 29	

Brig *Natten* of Salem from the Equator to the St. Martin de Nieuwen DAY  
OF THE VOYAGE.

H.	K.	F.	COURSE.	WINDS.	LEE Way.	BAROM.	THERMOM. Air-Wat.	SOUND- ING.	OCCURRENCE.	Monday Day	Aug 24 <sup>th</sup>	Isle
1	3		N by E	West		30.10	63°		Commence moderate with passing cloud,			
2	3						0					
3	3											
4	3		East	North					At 7 o'clock Ship set off & was visible			
5	3	4							Middle light Stanger took her Light Sail,			
6	3	4							Morning more Pleasant at them			
7	3	4		West								
8	3	4										
9	3	4	N by E						Remained fresh Breezes and			
10	3	4							appearance of a breeze from North?			
11	3	4							Took in Light Sail, & braced up			
12	3	4										
1	3	4										
2	3	4										
3	3	4										
4	3	4							At noon I judge the ship distant			
5	3	4							from her to be N by E 3.30 E 113 miles			
6	3	4										
7	3	4	N by E	North								
8	3	4	East	N by E								
9	3	4										
10	3	4	N by E									
11	3	4										
12	3	4										
						30.08	64°		Current N East 7 miles			
COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.					
N 65 E	135	122 2	By Acct. Obs. Diff. Alt.	36 34 50	By Acct. Chron. Lunar;	14 19 N 47 3.30 E 113'	Per Azimuth, " Amplitude,					104 West
Miles distance per Log.	134	Diff. Lat.	58'	Diff. Long.	2° 31'	Inches in the well.	Set of the current,					7 m. N. Eas.

H.	M.	P.	COURSES.	WINDS.	LEE WAT.	BAROM.	THERMOM. AIR, WAT.	SOUND- INGS.	Occurrence	Time	Lat.
1	7	1/2	Edy S	N by E		30.08	60		Commences Fresh Trades and Squally raining weather.	Tuesday Aug 25th	15.40
2	7	1/2							At 2 P.M. took in Tidal Sail, and		
3	7	1/2							" 4 " Spoke the main sail		
4	7	1/2	Edy S	N by E					" 9 " Took Sheet posted took in all		
5	7	1/2							Midnight strong Breeze, and thick		
6	7	1/2							At 6 A.M. more Pleasant light off the		
7	7	1/2							the W. distant 10 or 12 miles		
8	7	1/2							Set 1/2 mast Studding Sail, 1/2 1/2 top		
9	7	1/2							At 5 P.M. took a fair N. by E. too		
10	7	1/2							Set 1/2 Mast Studding Sail & Royal		
11	7	1/2							Terminated more pleasant; all sail		
12	7	1/2							Set		
1	7	1/2									
2	7	1/2									
3	7	1/2									
4	7	1/2									
5	7	1/2									
6	7	1/2									
7	7	1/2									
8	7	1/2									
9	7	1/2									
10	7	1/2									
11	7	1/2									
12	7	1/2									
1	7	1/2									
2	7	1/2									
3	7	1/2									
4	7	1/2									
5	7	1/2									
6	7	1/2									
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10	7	1/2									
11	7	1/2									
12	7	1/2									
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11	7	1/2									
12	7	1/2									
1	7	1/2									
2	7	1/2									
3	7	1/2									
4	7	1/2									
5	7	1/2									
6	7	1/2									
7	7	1/2									
8	7	1/2									
9	7	1/2									
10	7	1/2									
11	7	1/2									
12	7	1/2									
1	7	1/2									
2	7	1/2									
3	7	1/2									
4	7	1/2									
5	7	1/2									
6	7	1/2									
7	7	1/2									
8	7	1/2									
9	7	1/2									
10	7	1/2									
11	7	1/2									
12	7	1/2									
1	7	1/2									
2	7	1/2									
3	7	1/2									
4	7	1/2									
5	7	1/2									
6	7	1/2									
7	7	1/2									
8	7	1/2									
9	7	1/2									
10	7	1/2									
11	7	1/2									
12	7	1/2									
1	7	1/2									
2	7	1/2									
3	7	1/2									
4	7	1/2									
5	7	1/2									
6	7	1/2									
7	7	1/2									
8	7	1/2									
9	7	1/2									



# Brig Rattle off Salem from Boston to Lousibar

3<sup>rd</sup> DAY  
OF THE VOYAGE.

H.	K.	F.	COURSES	WINDS.	LEE WAY.	BAROM. Inch. Fahr.	THERMOM. Air. Water.	SOUND- INGS.	OCCURRENCES	Day of Aug 26 <sup>th</sup>	1840
1	9		ESE	North		30.08	60		Commence fresh breeze, and		
2	9								let sail set to best advantage		
3	9								" 11.8. D. 10. Strong breeze and clear weather		
4	9	4				29.95			" 12. 10. 10. 10. and squally		
5	9	4							" 12. 10. 10. 10. and squally		
6	9	4							" 12. 10. 10. 10. and squally		
7	9	4							" 12. 10. 10. 10. and squally		
8	10								" 12. 10. 10. 10. and squally		
9	10		ESE	N. S.		29.90			" 12. 10. 10. 10. and squally		
10	10								" 12. 10. 10. 10. and squally		
11	10	4							" 12. 10. 10. 10. and squally		
12	10	4							" 12. 10. 10. 10. and squally		
1	10	4							" 12. 10. 10. 10. and squally		
2	10	4							" 12. 10. 10. 10. and squally		
3	11								" 12. 10. 10. 10. and squally		
4	11								" 12. 10. 10. 10. and squally		
5	10								" 12. 10. 10. 10. and squally		
6	9	4							" 12. 10. 10. 10. and squally		
7	9	4							" 12. 10. 10. 10. and squally		
8	9					29.80			" 12. 10. 10. 10. and squally		
9	9								" 12. 10. 10. 10. and squally		
10	9					29.80			" 12. 10. 10. 10. and squally		
11	9								" 12. 10. 10. 10. and squally		
12	9					29.60	58		" 12. 10. 10. 10. and squally		
<p>Terminates as above, as she has run too of her course follow her but 8 miles for her course</p> <p>No Obn</p>											
COURSE.	DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.		VARIATION		P. M. A. M.
ESE	233	230.7	By Acct. Obs. Alt.	36 39 50	By Acct. Chron. Lunar,	72 5 45 W			For Azimuth, " Amplitude,	15 West	
Miles distance per Log.		2.33	Diff. Lat.		33	Diff. Long.		4° 41'	Inches in the well.		Set of the current, N.

H.	K.	F.	COURSES	WINDS.	LEE WAY.	BAROM. Inch. Fahr.	THERMOM. Air. Water.	SOUND- INGS.	OCCURRENCES	Thursday Aug 27 <sup>th</sup>	1840
1	9		ESE	North		29.50	55		Commence strong breeze and rainy weather		
2	9								" 12. 10. 10. 10. and squally		
3	9								" 12. 10. 10. 10. and squally		
4	9		ESE			29.85			" 12. 10. 10. 10. and squally		
5	9								" 12. 10. 10. 10. and squally		
6	8								" 12. 10. 10. 10. and squally		
7	8					29.90			" 12. 10. 10. 10. and squally		
8	8	4							" 12. 10. 10. 10. and squally		
9	8	4							" 12. 10. 10. 10. and squally		
10	8	4							" 12. 10. 10. 10. and squally		
11	8	4							" 12. 10. 10. 10. and squally		
12	8	4							" 12. 10. 10. 10. and squally		
1	1	4							" 12. 10. 10. 10. and squally		
2	1	4							" 12. 10. 10. 10. and squally		
3	1	4							" 12. 10. 10. 10. and squally		
4	1	4							" 12. 10. 10. 10. and squally		
5	1	4							" 12. 10. 10. 10. and squally		
6	1	4							" 12. 10. 10. 10. and squally		
7	1	4							" 12. 10. 10. 10. and squally		
8	1	4							" 12. 10. 10. 10. and squally		
9	1	4							" 12. 10. 10. 10. and squally		
10	1	4							" 12. 10. 10. 10. and squally		
11	1	4							" 12. 10. 10. 10. and squally		
12	1	4				29.75	55		" 12. 10. 10. 10. and squally		
<p>Current in 2 days past 213 E 23'</p>											
COURSE.	DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.		VARIATION		P. M. A. M.
			By Acct. Obs. Alt.	36 33 50	By Acct. Chron. Lunar,	1° 45' W			For Azimuth, " Amplitude,	15 West	
Miles distance per Log.		1.90	Diff. Lat.			Diff. Long.		4° 00'	Inches in the well.		Set of the current, E. 23 miles

# *Log Rattle of Salem from Boston to Louisa*

*Plan of the Voyage.*

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air/Wat.	SOUND- INGS.	OCCURRENCES.				
Friday Day of Aug 28th 1860													
1	7	4	E S E	North		29.95			Commences with fine weather				
2	7	4							Moderate Breeze from North and				
3	7	4							foggy misty weather				
4	7	4							Morning North in all shades of Sail				
5	7	4							Terminates Moderate Breeze and fog				
6	7	4											
7	7	4											
8	7	4											
9	7	4											
10	7	4											
11	7	4											
12	7	4											
1	7	4											
2	7	4											
3	7	4											
4	7	4											
5	7	4											
6	7	4											
7	7	4											
8	7	4											
9	7	4											
10	7	4											
11	7	4											
12	7	4											
					By Acct. Obs. Dble. Alt.	36.13	By Acct. Chron. Lunar.	28 East	Per Azimuth, 19 West				
					Miles distance per Log.	123	Diff. Lat.	10'	Diff. Long.	2.13'	Inches in the well.	Set of the current,	N.

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air/Wat.	SOUND-INGS.	OCCURRENCES.	1840
1	5	4	E S E	North		30.00			Commences with gentle N. E. m Light and buffing with rainy weather	
2	5	4							From 4 Am to midday	
3	5	4							More pleasant the wind hauling	
4	5	4							settles at all said	
5	5	4								
6	5	4								
7	5	4								
8	5	4								
9	5	4								
10	5	4								
11	5	4								
12	5	4								
1	5	4								
2	5	4								
3	5	4								
4	5	4								
5	5	4								
6	5	4								
7	5	4								
8	5	4								
9	5	4								
10	5	4								
11	5	4								
12	5	4								
					By Acct. Obs. Dble. Alt.	36.13	By Acct. Chron. Lunar.	228 E	Per Azimuth, 21 West	
					Miles distance per Log.	102	Diff. Lat.	9'	Diff. Long.	20 00'
								Inches in the well.	Set of the current.	N.

# Brig Rattle from Boston to Louisbar

61 DAY  
OF THE VOYAGE.

OF THE VOYAGE.											
H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. AIR. Wat.	SOUND- INGS.	OCCURRENCES.	Monday Aug 30th 1840	
1	5	4	SE	N West		30.1062					
2	5	4				"			Commencing Moderate & pleasant		
3	5	4									
4	5	4		N.W.					Middle & Latter Part Light		
5	5	4							Breeze, and Cloudy weather		
6	5	4									
7	5	4		West							
8	5	4									
9	5	4									
10	5	4		Variable							
11	5	4		from							
12	3	5		SE							
1	5	4									
2	5	4		West							
3	5	4									
4	5	4									
5	5	4									
6	5	4									
7	5	4									
8	5	4									
9	5	4				30.15					
10	5	4	SE	West							
11	5	4									
12	5	4				30.2557			Current 433 E. 25 miles.		
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct. Obs. Dble. Alt.	30.3430	By Acct. Chron. Lunar.	5 18 6		Per Azimuth, " Amplitude,	22 1/2 West
Miles distance per Log.			123	Diff. Lat.	18'	Diff. Long.	2° 50'	Inches in the well.	Set of the current,	25 N. by E.	

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. AIR/WAT.	SOUND- INGS.	OCCURRENCES.	Monday Day of Aug 31st 1840	
1	5	4	SE by E	N.W.		30.2557				Commencing Moderate and Cloudy.	
2	5	4									
3	5	4								4 P.M. Took in Sea Sundry Fish,	
4	5	4								Set with anchor mainbrace,	
5	5	4									
6	6	6								Middle Part Moderate & pleasant	
7	6	6									
8	6	6		N.W.						During the Wind hauling in the main	
9	6	6								Took in all Sundry Fish & Braces Ship	
10	6	4								Terminated with Breeze and pleasant	
11	7	7								All Sail Set by the winds	
12	7	7									
1	7	7		West							
2	7	7									
3	7	7									
4	7	7									
5	7	4									
6	7	4									
7	8	8		N.W.		30.28					
8	8	8									
9	8	8									
10	8	8									
11	8	8									
12	8	8				30.3017				Current 433 E. 29 miles.	
COURSE.			DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct. Obs. Dble. Alt.	36 29 80	By Acct. Chron. Lunar.	8 18		Per Azimuth, " Amplitude,	25 West
Miles distance per Log.			164	Diff. Lat.	5'	Diff. Long.	3° 30'	Inches in the well.	Set of the current,	29 N. by E.	

1512 *Katten & Sars from N. to L. to L. to L.* 63<sup>22</sup> DAY  
OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	Lee Way.	Barom.	Thermom. Air. Wat.	Sound-ings.	OCCURRENCES.	Day of Sept 1 <sup>st</sup>	18 11
1	6	6	Ely 26	South		30.30	54		Commences Mist, Breezes and pleasant weather		
2	6	6									
3	6	6									
4	5	5	E 26								
5	5	5	Ely 8	Sly 6					Midnight tacked to the S. Westward		
6	5	5							Light breeze & clear weather		
7	4	4	East	SSE							
8	5	5							Terminates, Light Air & Calm		
9	5	5	E 26						with clear weather		
10	5	5									
11	5	5									
12	5	5	W 26								
1	4	4	W 26								
2	4	4									
3	3	3									
4	2	2									
5	2	2									
6	2	2	Calmy 8	Sly 11							
7	2	2									
8	2	2									
9	2	2									
10	3	3									
11	2	2									
12	2	2									

COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.
			By Acet. Obs. Dub. Alt.	36 07 30	By Acet. Chron. Lunar.	10 15 E	Per Azimuth, 27 1/2
Miles distance per Log. 90			Diff. Lat.	Diff. Long.	Inches in the well.	Set of the current, 17 1/2	North

H.	K.	F.	COURSES.	WINDS.	Lee Way.	Barom.	Thermom. Air. Wat.	Sound-ings.	OCCURRENCES.	Day of Sept 2 <sup>nd</sup>	18 11
1	1	1	Ely 26	Sly 5		30.45	58		Commences with Mist & Breeze		
2	1	1							Trinitas & pleasant weather		
3	1	1							then a moderate breeze from S.W.		
4	1	1							which continued throughout with		
5	1	1							passing clouds & a head sea		
6	1	1									
7	1	1									
8	1	1									
9	1	1									
10	1	1	E 26	South					Red Dist. & Spinn. 1/2 morn. the Chron.		
11	1	1							is 2.08. Now making the Long 32. West		
12	1	1							of the Chron. & Longitude		
1	1	1									
2	1	1									
3	1	1									
4	1	1	Ely 26	Sly 11							
5	1	1									
6	1	1									
7	1	1									
8	1	1									
9	1	1	E 26								
10	1	1									
11	1	1									
12	1	1									

COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.
			By Acet. Obs. Dub. Alt.	36 15 30	By Acet. Chron. Lunar.	11 30 E	Per Azimuth, 28 1/2
Miles distance per Log. 61			Diff. Lat.	Diff. Long.	Inches in the well.	Set of the current, 11	



Wing Rattle of Salem from Boston

to Lousibar

65<sup>th</sup> DAY  
OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. AIR. WAT.	SOUND- INGS.	OCCURRENCES.	Thursday Sept 3 <sup>rd</sup> 1840						
1	6	4	SE E S by W			30.40	33		Commenced Fresh breeze, and pleasant weather This day Fresh Breeze and passing Squalls of rain W. of the wind hauling East with rain. In the ship to the Terminated Fresh breeze and passing clouds. with a very heavy head sea							
2	6	4	East S by W													
3	6	4														
4	6	4														
5	6	4														
6	6	4	SE by E													
7	6	4														
8	6	4	East													
9	6	4														
10	6	4	SE by E													
11	5	4														
12	5	4														
1	5	4	SE by E South						Current N 41 E. 3.3 miles							
2	6	4														
3	6	4														
4	6	4														
5	6	4														
6	6	4														
7	6	4														
8	5	4	East S by E	SE		30.35	35									
9	5	4	West													
10	4	4	SW by S													
11	4	4														
12	4	4				30.30	30									
COURSE.		DIST.		DEPART.		LATITUDE.		LONGITUDE.		BEARING & DISTANCE.		VARIATION		P. M. A. M.		
						By Acct. Obs. Dole. Alt.		36 22 S.		By Acct. Chron. Lunar.		14 16 East		Per Azimuth, " Amplitude,		28.7 West
Miles distance per Log. 142						Diff. Lat. 7'		Diff. Long. 2' 46'		Inches in the well.		Set of the current N 22 E. 3.3				

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air-Wat.	SOUND- INGS.	OCCURRENCES.	Friday Sept 4 <sup>th</sup> 1840							
1	4	4	SE by W	SE by E		30.35	60	0	Throughout this Day Fresh Breeze and passing Clouds At 5 PM Fresh East wind very heavy head sea								
2	4	4															
3	4	4															
4	4	4															
5	4	4				30.30											
6	4	4															
7	4	4															
8	4	4															
9	6	4	SW by S	SE		30.25											
10	6	4															
11	6	4															
12	6	4															
1	6	4															
2	6	4															
3	6	4															
4	6	4															
5	6	4	SW by S														
6	6	4															
7	6	4															
8	6	4															
9	7	4	SE by W	SE		30.20											
10	7	4															
11	7	4															
12	7	4															
1	7	4	SE by W	SE		30.15											
2	7	4															
3	7	4															
4	7	4															
5	7	4	SE by W	SE		30.12	58	7									
6	7	4															
7	7	4															
8	7	4															
9	7	4															
10	7	4															
11	7	4															
12	7	4															
COURSE.		DIST.		DEPART.		LATITUDE.		LONGITUDE.		BEARING & DISTANCE.		VARIATION		P. M. A. M.			
						By Acct. Obs. Dole. Alt.		38 07 S.		By Acct. Chron. Lunar.		13 26 E.		Per Azimuth, " Amplitude,		27 West	
Miles distance per Log. 160						Diff. Lat.		Diff. Long.		Inches in the well.		Set of the current,		M.			

Brig Rattle

from Boston

to San Sebastian

60th  
DAY  
OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LEE Way.	BAROM.	Thermom.	Sound-ings.	OCCURRENCES.	Latitude	Longitude	Bearing & Distance.	Variation	P. M. A. M.																								
1	8		Ely. N. E	SE	1/2	30.00			Commenced strong breeze and fair clouds with a plain head sea																													
2	9					30.07			At 3.30 P.M. took in the fore sail																													
3	8					30.00			At 4.00 P.M. took in the main sail																													
4	8					29.95			At 4.15 P.M. took in the fore sail																													
5	8								At 4.30 P.M. took in the fore sail																													
6	8								At 4.45 P.M. took in the fore sail																													
7	8								At 5.00 P.M. took in the fore sail																													
8	8								At 5.15 P.M. took in the fore sail																													
9	8					29.95			At 5.30 P.M. took in the fore sail																													
10	8								At 5.45 P.M. took in the fore sail																													
11	8								At 6.00 P.M. took in the fore sail																													
12	8					29.95			At 6.15 P.M. took in the fore sail																													
1	4		N. E	SE	1/2				At 6.30 P.M. took in the fore sail																													
2	4		N. E	SE	1/2				At 6.45 P.M. took in the fore sail																													
3	4		N. E	SE	1/2				At 7.00 P.M. took in the fore sail																													
4	4		N. E	SE	1/2				At 7.15 P.M. took in the fore sail																													
5	4		N. E	SE	1/2				At 7.30 P.M. took in the fore sail																													
6	4		N. E	SE	1/2				At 7.45 P.M. took in the fore sail																													
7	4		N. E	SE	1/2				At 8.00 P.M. took in the fore sail																													
8	4		N. E	SE	1/2				At 8.15 P.M. took in the fore sail																													
9	4		N. E	SE	1/2				At 8.30 P.M. took in the fore sail																													
10	4		N. E	SE	1/2				At 8.45 P.M. took in the fore sail																													
11	4		N. E	SE	1/2				At 9.00 P.M. took in the fore sail																													
12	4		N. E	SE	1/2				At 9.15 P.M. took in the fore sail																													
A little Easterly current.																																						
<table><tr><th>COURSE.</th><th>DIST.</th><th>DEPART.</th><th>LATITUDE.</th><th>LONGITUDE.</th><th>BEARING &amp; DISTANCE.</th><th>VARIATION</th><th>P. M. A. M.</th></tr><tr><td></td><td></td><td></td><td>By Acet. Obs. Dble. Alt.</td><td>37° 28' 00"</td><td>By Acet. Chron. Lunar.</td><td>144° 56'</td><td>Per Azimuth, 28° West</td></tr><tr><td>Miles distance per Log.</td><td>125</td><td></td><td>Diff. Lat. 39'</td><td>Diff. Long. 1° 22'</td><td>Inches in the well.</td><td>Set of the current,</td><td>N.</td></tr></table>															COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.				By Acet. Obs. Dble. Alt.	37° 28' 00"	By Acet. Chron. Lunar.	144° 56'	Per Azimuth, 28° West	Miles distance per Log.	125		Diff. Lat. 39'	Diff. Long. 1° 22'	Inches in the well.	Set of the current,	N.
COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.																															
			By Acet. Obs. Dble. Alt.	37° 28' 00"	By Acet. Chron. Lunar.	144° 56'	Per Azimuth, 28° West																															
Miles distance per Log.	125		Diff. Lat. 39'	Diff. Long. 1° 22'	Inches in the well.	Set of the current,	N.																															

H.	K.	F.	COURSES.	WINDS.	LEE Way.	BAROM.	Thermom.	Sound-ings.	OCCURRENCES.	Latitude	Longitude	Bearing & Distance.	Variation	P. M. A. M.
1	2		Ely E	N E	1/2	30.00	66		Commenced Moderate & pleasant					
2	2	4							At 3.30 P.M. took in the fore sail					
3	2	4							Middle Part South Breast & Co.					
4	2	4							A heavy sea coming					
5	2	4	Ely E	Ely N	"				Morning more pleasant but a heavy					
6	3								Explosion at 2 m. morning					
7	3								Set all last 2 m. day fair					
8	3	4	East	East E	"				At 8. Took in main sail and					
9	3	4							Set in m. day sail.					
10	4		Ely E	Ely E	"				Commenced Moderate breeze					
11	5								and passing clouds					
12	5		E E	N E	0									
1	6													
2	6	4												
3	6	4												
4	6													
5	6													
6	6													
7	6													
8	6													
9	6													
10	6													
11	6													
12	6													
									Current N 51 E. 16 mits,					
								</						

Brig Kadet of Salem from Boston

10 Lanesbar

69th DAY  
OF THE VOYAGE.

OF THE VOYAGE.											
II.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air. Wat.	SUN. INSTR.	OCCURRENCES.	DATE.	
1	6		Polychrome West			29.98	68		Commenced with Sauter's	Sept 7th 1840	
2	6								From midship to the Gun		
3	6	4		N.W.					and the Island		
4	6	4		N.W.					At 5 Am Wind Breeze so occasional		
5	6	4		N.W.					Light Southerly from N.W.		
6	6	4		N.W.					Set the mainsail		
7	6	4		N.W.					Terminated the same		
8	6	4		N.W.							
9	6	4		N.W.							
10	6	4		N.W.							
11	6	4		N.W.							
12	6	4		N.W.							
1	6	4		N.W.							
2	6	4		N.W.							
3	6	4		N.W.							
4	6	4		N.W.							
5	6	4		N.W.							
6	6	4		N.W.							
7	6	4		N.W.							
8	6	4		N.W.							
9	6	4		N.W.							
10	6	4		N.W.							
11	6	4		N.W.							
12	6	4		N.W.							
			COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION.	P.M. A.M.	
						By Acct. Obs. Dble. Alt.	27 29 50	By Acct. Chron. Lunar.	20 05 6	Per Azimuth. " Amplitude.	28 1/2
			Miles distance per Log. 193 1/2			Diff. Lat.	11'	Diff. Long.	20 32'	Inches in the well.	Set of the current 2 1/2 N by E

II.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM.	THERMOM. Air. Wat.	SUN. INSTR.	OCCURRENCES.	DATE.																									
1	6	4	Port	N.W.		29.98	64		Commenced with Sauter's	Sept 8th 1840																									
2	6	4		N.W.					At 1.30. Breeze in at East																										
3	6	4		N.W.					Took in all the sails, Light																										
4	6	4		N.W.					At 4.00. Breeze in at East																										
5	6	4		N.W.					Midnight meeting the wind																										
6	6	4		N.W.					At 1.00. Breeze in at East																										
7	6	4		N.W.					At 2.00. Breeze in at East																										
8	6	4		N.W.					At 3.00. Breeze in at East																										
9	6	4		N.W.					At 4.00. Breeze in at East																										
10	6	4		N.W.		29.98			At 5.00. Breeze in at East																										
11	6	4		N.W.					At 6.00. Breeze in at East																										
12	6	4		N.W.					At 7.00. Breeze in at East																										
1	6	4	Port	N.W.					Observations, Indifferent																										
2	6	4		N.W.																															
3	6	4		N.W.																															
4	6	4		N.W.		29.98																													
5	6	4		N.W.																															
6	6	4		N.W.																															
7	6	4		N.W.																															
8	6	4		N.W.		29.98																													
9	6	4		N.W.																															
10	6	4		N.W.																															
11	6	4		N.W.																															
12	6	4		N.W.		29.98																													
<table><tr><th>COURSE.</th><th>DIST.</th><th>DEPART.</th><th>LATITUDE.</th><th>LONGITUDE.</th><th>BEARING &amp; DISTANCE.</th><th>VARIATION.</th><th>P.M. A.M.</th></tr><tr><td></td><td></td><td></td><td>By Acct. Obs. Dble. Alt.</td><td>37 04 50</td><td>By Acct. Chron. Lunar.</td><td>21 20 6</td><td>Per Azimuth, " Amplitude.</td><td>28 1/2</td></tr><tr><td colspan="3">Miles distance per Log. 154</td><td>Diff. Lat. 25'</td><td>Diff. Long. 1 35'</td><td>Inches in the well.</td><td colspan="2">Set of the current, 6 1/2 N by E</td></tr></table>											COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION.	P.M. A.M.				By Acct. Obs. Dble. Alt.	37 04 50	By Acct. Chron. Lunar.	21 20 6	Per Azimuth, " Amplitude.	28 1/2	Miles distance per Log. 154			Diff. Lat. 25'	Diff. Long. 1 35'	Inches in the well.	Set of the current, 6 1/2 N by E	
COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION.	P.M. A.M.																												
			By Acct. Obs. Dble. Alt.	37 04 50	By Acct. Chron. Lunar.	21 20 6	Per Azimuth, " Amplitude.	28 1/2																											
Miles distance per Log. 154			Diff. Lat. 25'	Diff. Long. 1 35'	Inches in the well.	Set of the current, 6 1/2 N by E																													

Big Water of Salem from Boston

to Lonsiba

77.51  
DAY  
OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LEE Way.	BAROM. sub. Bar.	THERMOM. Air, Wat.	SOUND- INGS.	OCCURRENCES.	Wednesday Sept 9th 1840		
1	4		On	SE		29.72				Commenced from Salem & sailed from		
2	4									" 1. 1/2. Breeze shifted to SE		
3	4									" 6. " Breeze moderate & clear to weather		
4	4									" 11. " Breeze moderate & clear		
5	4									" 1. 1/2. Breeze moderate & clear		
6	4									" 1. 1/2. Breeze moderate & clear		
7	4									" 1. 1/2. Breeze moderate & clear		
8	4									" 1. 1/2. Breeze moderate & clear		
9	4									" 1. 1/2. Breeze moderate & clear		
10	4									" 1. 1/2. Breeze moderate & clear		
11	4									" 1. 1/2. Breeze moderate & clear		
12	4									" 1. 1/2. Breeze moderate & clear		
1	4									" 1. 1/2. Breeze moderate & clear		
2	4									" 1. 1/2. Breeze moderate & clear		
3	4									" 1. 1/2. Breeze moderate & clear		
4	4									" 1. 1/2. Breeze moderate & clear		
5	4									" 1. 1/2. Breeze moderate & clear		
6	4									" 1. 1/2. Breeze moderate & clear		
7	4									" 1. 1/2. Breeze moderate & clear		
8	4									" 1. 1/2. Breeze moderate & clear		
9	4									" 1. 1/2. Breeze moderate & clear		
10	4									" 1. 1/2. Breeze moderate & clear		
11	4									" 1. 1/2. Breeze moderate & clear		
12	4									" 1. 1/2. Breeze moderate & clear		
										Current 1/2 E 1/4 S miles.		
COURSE.			DIST.	DEPART.	LATITUDE.			LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct.	Obs.	Dole. Alt.	By Acct.	Chron.	Lunar.	Per Azimuth,	" Amplitude,
					39 11.30			22.26				29 West
Miles distance per Log.				137	Diff. Lat.		57'	Diff. Long.		176'	Inches in the well.	Set of the current.
												47 " SE 1/2 E

H.	K.	F.	COURSES.	WINDS.	LEE Way.	BAROM. sub. Pat.	THERMOM. Air, Wat.	SOUND- INGS.	OCCURRENCES	Thursday Sept 10th 1840		
1	5	4	Diff. West	SE		29.72			Commenced from Salem & sailed from			
2	5	4							" 1. 1/2. Breeze shifted to SE			
3	5	4							" 6. " Breeze moderate & clear to weather			
4	5	4							" 11. " Breeze moderate & clear			
5	5	4							" 1. 1/2. Breeze moderate & clear			
6	5	4							" 1. 1/2. Breeze moderate & clear			
7	5	4							" 1. 1/2. Breeze moderate & clear			
8	5	4							" 1. 1/2. Breeze moderate & clear			
9	5	4							" 1. 1/2. Breeze moderate & clear			
10	5	4							" 1. 1/2. Breeze moderate & clear			
11	5	4							" 1. 1/2. Breeze moderate & clear			
12	5	4							" 1. 1/2. Breeze moderate & clear			
1	5	4							" 1. 1/2. Breeze moderate & clear			
2	5	4							" 1. 1/2. Breeze moderate & clear			
3	5	4							" 1. 1/2. Breeze moderate & clear			
4	5	4							" 1. 1/2. Breeze moderate & clear			
5	5	4							" 1. 1/2. Breeze moderate & clear			
6	5	4							" 1. 1/2. Breeze moderate & clear			
7	5	4							" 1. 1/2. Breeze moderate & clear			
8	5	4							" 1. 1/2. Breeze moderate & clear			
9	5	4							" 1. 1/2. Breeze moderate & clear			
10	5	4							" 1. 1/2. Breeze moderate & clear			
11	5	4							" 1. 1/2. Breeze moderate & clear			
12	5	4							" 1. 1/2. Breeze moderate & clear			
										No Current		
COURSE.			DIST.	DEPART.	LATITUDE.			LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
					By Acct.	Obs.	Dole. Alt.	By Acct.	Chron.	Lunar.	Per Azimuth,	" Amplitude,
					39 03.30			24 00 East				29 West
Miles distance per Log.				100	Diff. Lat.		1° 02'	Diff. Long.		1° 04'	Inches in the well.	Set of the current,
												M.



Brig *Rattle of Salem* from Boston

to *Lauscha*

73<sup>rd</sup> DAY  
OF THE VOYAGE.

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM. alt. Fath.	THERMOM. Air, Wat.	SOUND- INGS.	OCCURRENCES.	Friday Day of Sept 11th 1840
1						30.15	72		Commenced Calm & pleasant with a long swell from N. by E. & S. by E.	
2										
3										
4										
5										
6						30.10			Middle Part Light and pleasant Terminated the same The Water has every appearance of Sandings	
7										
8										
9	1									
10	1					30.10				
11	1									
12	1									
1	2	4								
2	2	4								
3	3									
4	3									
5	3									
6	3									
7	3	4				30.01 66				
8	4									
9	4									
10	4									
11	3									
12	2					29.93 72				

COURSE.	DIST.	DEPART.	LATITUDE.		LONGITUDE.		BEARING & DISTANCE.	VARIATION	P. M. A. M.
			By Acet. Obs. Dble. Alt.	38° 30' S	By Acet. Chron. Lunar,	26° 20' E		Per Azimuth, " Amplitude,	30 West
Miles distance per Log. 40			Diff. Lat.	33'	Diff. Lon.	2° 20'	Inches in the well.	Set of the current, 7/4 N. by E.	

H.	K.	F.	COURSES.	WINDS.	LEE WAY.	BAROM. alt. Fath.	THERMOM. Air, Wat.	SOUND- INGS.	OCCURRENCES.	Saturday Day of Sept 12th 1840
1	2	4				29.97 72			Commenced with variable S. by E. Moderate Breeze and pleasant weather	
2	2	4								
3	2	4								
4	2	4								
5	3									
6	4								The Sail Set to best advantage	
7	4									
8	4					29.90				
9	4									
10	4									
11	5									
12	5									
1	5									
2	5									
3	5									
4	5	4								
5	6	4								
6	6									
7	7					29.80 64				
8	7									
9	8								Current N. 68 E 2.5 miles	
10	8									
11	8									
12	9					29.70 70				

COURSE.	DIST.	DEPART.	LATITUDE.	LONGITUDE.	BEARING & DISTANCE.	VARIATION	P. M. A. M.
			By Acet. Obs. Dble. Alt.	37 45 S By Acet. Chron. Lunar,	29 20 E	Per Azimuth, " Amplitude,	50 West
Miles distance per Log. 127.			Diff. Lat. 42	Diff. Long. 3° 01'	Inches in the well.	Set of the current, 2 1/2 N. by E. 1/4 E.	



Brize Pallen

from Boston

to Lousibar

77th DAY OF THE YEAR

H.	K.	P.	COURSES	WINDS	LEE WAT.	BAROM.	THERMO.	SUNSH.	OCCURRENCES
					WAT. F.	ALT. W.	W.	INCH.	
1	4		SE	SE	14	30.00			Commence fresh breeze pleasant
2	4								At 10. S. by E. breeze fresh
3	4								At 12. N. by E. fresh breeze of heavy with
4	4		SE						passing clouds.
5	4					30.07			At 1. S. by E. breeze fresh
6	4								At 2. S. by E. breeze fresh
7	4								At 3. S. by E. breeze fresh
8	4		SE						At 4. S. by E. breeze fresh
9	4								At 5. S. by E. breeze fresh
10	4		SE	SE					At 6. S. by E. breeze fresh
11	4								At 7. S. by E. breeze fresh
12	4					30.15			At 8. S. by E. breeze fresh
1	6								At 9. S. by E. breeze fresh
2	6								At 10. S. by E. breeze fresh
3	6								At 11. S. by E. breeze fresh
4	6								At 12. S. by E. breeze fresh
5	6								At 1. S. by E. breeze fresh
6	6		SE			14			At 2. S. by E. breeze fresh
7	6								At 3. S. by E. breeze fresh
8	6		West	SE		30.30			At 4. S. by E. breeze fresh
9	6								At 5. S. by E. breeze fresh
10	6								At 6. S. by E. breeze fresh
11	6								At 7. S. by E. breeze fresh
12	6					30.35			At 8. S. by E. breeze fresh
Current by N 4 E miles,									
COURSE.			DIST.		DEPART.		LATITUDE.		LONGITUDE.
									BEARING & DISTANCE.
									VARIATION.
									P. M. A. M.

Log Tackle from Boston

Lansibar

79th DAY OF THE VOYAGE.

H.	K.	P.	COURSES.	WINDS.	LEF. WAY.	BAROM.	THERMOM. Air/Wind	SOUND-INGS.	OCCURRENCES.	Day of the Month	Is.
1	5	4	Ely N. N. East	SE						Sept 17	1860
2	5	4							Commenced with wind, water Midnight		
3	5	4							fresh breezes & thick weather		
4	5	4	E. N. E.				64				
5	5	4	Ely N. N. East				50.50		At 1.30 in. solid ice, for calm and		
6	5	4							in a few minutes took it back from test		
7	5	4	E. N. E.						Making fresh breezes & rainy weather		
8	5	4							Get it top made traces, sail in sail (24 ft)		
9	5	4							terminate fine steady breezes & thick		
10	5	4							dump weather		
11	5	4							No sign of ice in		
12	5	4	N. E. N. E. West				50.55		top an open for ice at the water with		
1	5	4							the late by fresh breezes 1.30 E. strong current		
2	5	4							But as the crew of 1 mile in salt making new		
3	5	4							grate in long. It cannot be 1/2 mile in when		
4	5	4							stronger conclude we had had at least		
5	5	4							a depth of 1/2 mile. It being 1.30 in. at 1.30		
6	5	4							though I do not allow it in my days work		
7	5	4									
8	5	4									
9	5	4									
10	5	4									
11	5	4									
12	5	4									
Miles distance per Log. 138											
Diff. Lat. 1° 45'											
Diff. Long. 1° 18'											
Inches in the well.											
Set of the current, m.											



Bark Star sailed from Salem July 23<sup>d</sup> 1838  
 Arrived at Cape Town Oct 9<sup>th</sup> 1838 Took the N.E. Trades Outward  
 Sailed from - do - Oct 25<sup>th</sup> " in Lat 26 N Long 35 West  
 Arrived at Aggenza Nov 15<sup>th</sup> " Took the S.E. Trades Outward  
 Sailed from - do - Nov 21<sup>st</sup> " in Lat 1 S Long 16 West  
 Arrived at Lamsiba Dec 1<sup>st</sup> " Lost him in 30 S Long 22 W  
 Sailed from - do - Dec 5<sup>th</sup> " Crossed the Equator outward  
 Arrived at Majunga Dec 19<sup>th</sup> " in Long 15 West! Sept 5<sup>th</sup>  
 Sailed from - do - " 25<sup>th</sup> " Took the S.E. Trades Homeward  
 Arrived at Mozambique Jan 2<sup>d</sup> 1839 in Lat 26 S Long 6 E  
 Sailed from - do - " 10<sup>th</sup> " Crossed the Equator Homeward  
 Arrived at Lamsiba " 22<sup>nd</sup> " in Long 3 1/2 W Oct 26<sup>th</sup>  
 Sailed from - do - Feb 5<sup>th</sup> " Lost the N.E. Trades Homeward  
 Arrived at Nocha March 19<sup>th</sup> " in Lat 6 N Long 36 West Oct 4  
 Sailed from - do - April 24 " Took the N.E. Trades Oct 31<sup>st</sup>  
 Arrived at Natal May 12<sup>th</sup> " Lat 230 N Long 39 West  
 Sailed from - do - " 18<sup>th</sup> "  
 Arrived at Bombay " 24<sup>th</sup> "  
 Sailed from - do - June 15<sup>th</sup> "  
 Arrived at Majunga July 15<sup>th</sup> "  
 Sailed from - do - " 29<sup>th</sup> "  
 Arrived at Lamsiba " 34<sup>th</sup> "  
 Sailed from - do - Aug 13<sup>th</sup> "  
 Arrived at Majunga Sept 1<sup>st</sup> "  
 Sailed from - do - " 6<sup>th</sup> "  
 Saw the Land of Mozambique Sept 9<sup>th</sup> "  
 Saw the Land off Algoa Bay " 25<sup>th</sup> "  
 Crossed the Cape of Hope Oct 2<sup>d</sup> "  
 Arrived at St Helena " 11 "  
 Sailed from - do - " 13 "  
 Arrived at Salem Nov 26. 1839  
 After an absence of 16 mo's and 3 days -

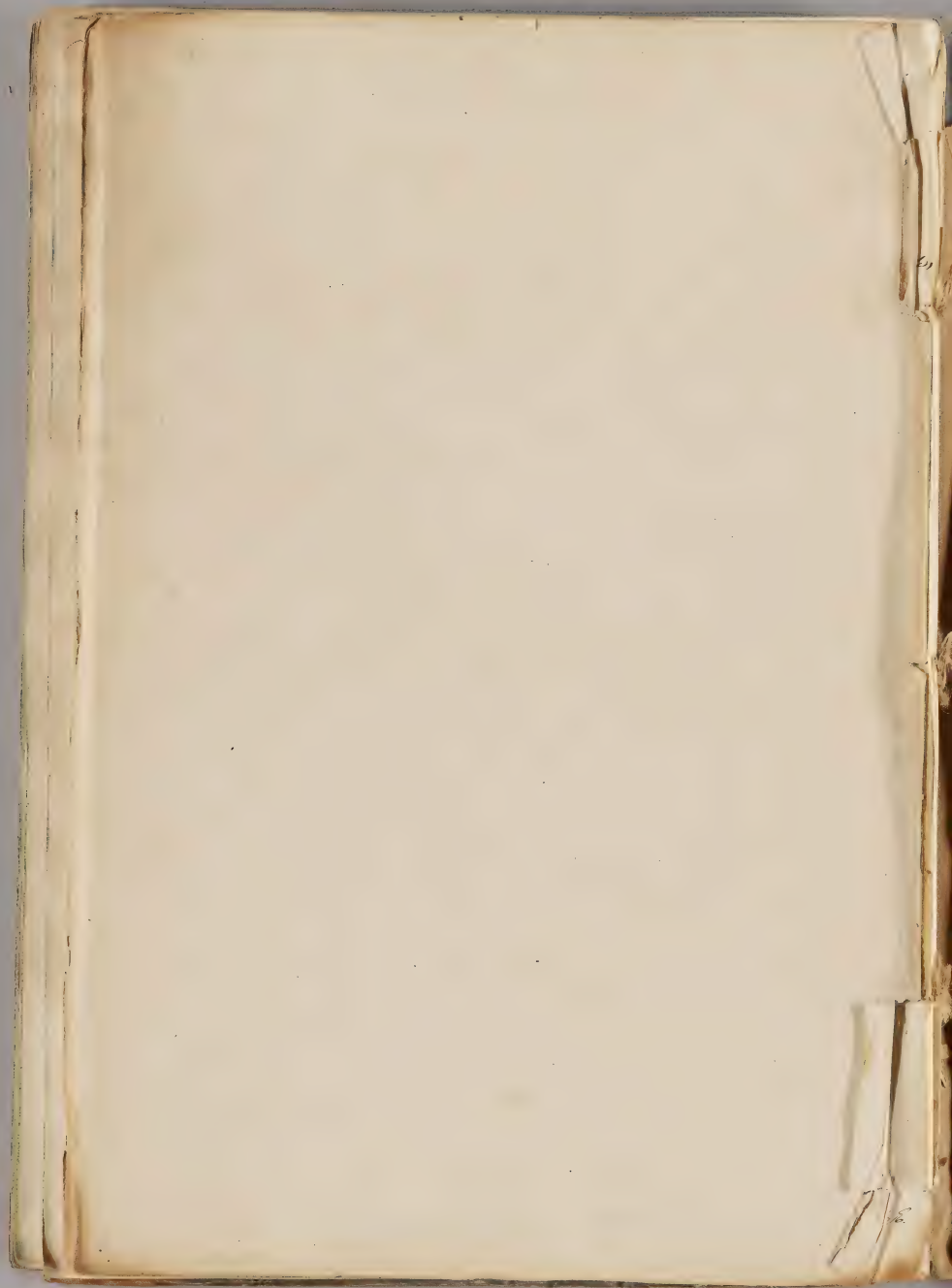


Table Mountain as seen from Indian point of Table Bay Oct 25<sup>th</sup>



Albion Ferry

main lake 4.57 at 8 Mile Aqueduct (Ent) Moon's Fastest Smb

8.16.00	52.50	56.58	SD 14.47
17.20	54.11	56.14	13
22.40	55.24	55.22	(SD) 15.00
50.00	156.25	168.34	(P) 54.15
16.40 Mh	54.08	56.11	
12.48.22 Siff	54.04	20	10.30.00 pr chro
10.05.02 Siff		55.51	8 41.38. pr Water
3.02.5 Sffo			1.48.22 Siff
12.08.05.5 Greenwich Tenn		64.36	9.9557-9.9557
8.20.05		54.04	10.2619-10.2619
		55.51	10.0349-11.3163
1.65.00		74.29	1.8846-2290
Aug 2.7.00 pr chro		87.10	2.1371-1.7629
		32.40	
		33.10	

54.00	20003
40	00474
81	9.57.197
334	3.8570
136.17	9.96154
68.08	2.2052
14.04	9.48077

19.22.06  
 9.07.32  
 8.14.34  
 5.31  
 8.20.05 Time of Ship

Dist 174

64.52.30  
 57.45  
 57.15  
 153.30

64.51.50  
 3.00  
 64.48.50  
 15.00

64.53.50  
 39.19  
 26.93  
 11.19  
 3.06  
 20

64.07.47 8218  
 64.54.55-3974  
 27.08 4244

2 9.00.00  
 21 07.45  
 10.07.45  
 8.20.05  
 1.47.40

Longer Run 26.55 La  
 pr chro 27.00  
 Siff - 5



Table Mountain



dist 6 miles.

From North 15<sup>th</sup> Reg. San Jil on 1<sup>st</sup> Oct

10.15	22.33	57.09	25.19.45	65.10	57.12
11.15	22.33	12	10.00	25.00	57.12
12.15	23.35	57.57	12.45	14.50	12
13.15	23.35	57.57	14.00		
14.15	24.15	58.10.00	16.00		
15.15	24.15	58.10.25	17.30		
16.15	24.15	58.31	18.11		
17.15	24.15	58.40	18.11		
18.15	24.15	58.40	18.11		
19.15	24.15	58.40	18.11		
20.15	24.15	58.40	18.11		
21.15	24.15	58.40	18.11		
22.15	24.15	58.40	18.11		
23.15	24.15	58.40	18.11		
24.15	24.15	58.40	18.11		
25.15	24.15	58.40	18.11		
26.15	24.15	58.40	18.11		
27.15	24.15	58.40	18.11		
28.15	24.15	58.40	18.11		
29.15	24.15	58.40	18.11		
30.15	24.15	58.40	18.11		
31.15	24.15	58.40	18.11		
32.15	24.15	58.40	18.11		
33.15	24.15	58.40	18.11		
34.15	24.15	58.40	18.11		
35.15	24.15	58.40	18.11		
36.15	24.15	58.40	18.11		
37.15	24.15	58.40	18.11		
38.15	24.15	58.40	18.11		
39.15	24.15	58.40	18.11		
40.15	24.15	58.40	18.11		
41.15	24.15	58.40	18.11		
42.15	24.15	58.40	18.11		
43.15	24.15	58.40	18.11		
44.15	24.15	58.40	18.11		
45.15	24.15	58.40	18.11		
46.15	24.15	58.40	18.11		
47.15	24.15	58.40	18.11		
48.15	24.15	58.40	18.11		
49.15	24.15	58.40	18.11		
50.15	24.15	58.40	18.11		
51.15	24.15	58.40	18.11		
52.15	24.15	58.40	18.11		
53.15	24.15	58.40	18.11		
54.15	24.15	58.40	18.11		
55.15	24.15	58.40	18.11		
56.15	24.15	58.40	18.11		
57.15	24.15	58.40	18.11		
58.15	24.15	58.40	18.11		
59.15	24.15	58.40	18.11		
60.15	24.15	58.40	18.11		
61.15	24.15	58.40	18.11		
62.15	24.15	58.40	18.11		
63.15	24.15	58.40	18.11		
64.15	24.15	58.40	18.11		
65.15	24.15	58.40	18.11		
66.15	24.15	58.40	18.11		
67.15	24.15	58.40	18.11		
68.15	24.15	58.40	18.11		
69.15	24.15	58.40	18.11		
70.15	24.15	58.40	18.11		
71.15	24.15	58.40	18.11		
72.15	24.15	58.40	18.11		
73.15	24.15	58.40	18.11		
74.15	24.15	58.40	18.11		
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76.15	24.15	58.40	18.11		
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78.15	24.15	58.40	18.11		
79.15	24.15	58.40	18.11		
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81.15	24.15	58.40	18.11		
82.15	24.15	58.40	18.11		
83.15	24.15	58.40	18.11		
84.15	24.15	58.40	18.11		
85.15	24.15	58.40	18.11		
86.15	24.15	58.40	18.11		
87.15	24.15	58.40	18.11		
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89.15	24.15	58.40	18.11		
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92.15	24.15	58.40	18.11		
93.15	24.15	58.40	18.11		
94.15	24.15	58.40	18.11		
95.15	24.15	58.40	18.11		
96.15	24.15	58.40	18.11		
97.15	24.15	58.40	18.11		
98.15	24.15	58.40	18.11		
99.15	24.15	58.40	18.11		
100.15	24.15	58.40	18.11		

